STEREO RECEIVER

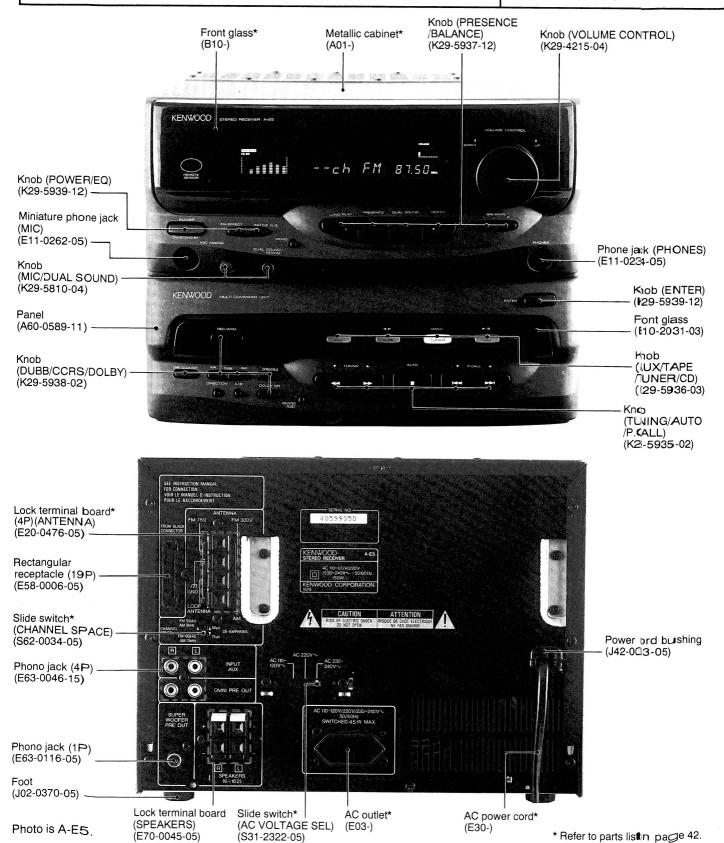
A-E5/L

SERVICE MANUAL

(UD-502/552)

KENWOOD

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ACCESSORIES

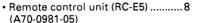
• FM indoor antenna1 (T90-0182-15)



• AC plug adaptor1 (E03-0115-05)



Except for the U.S.A., Canada, Europe, U.K. and Australia. For the unit with a European AC plug in areas other than Europe.





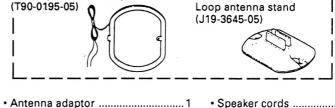
• Batteries 2

• AM loop antenna ass'y -

(T90-0195-05)

(T90-0198-05)

For U.K. and Europe.



• Speaker cords 2 (E31-5479-08)



For U.K. and Europe.



Battery cover (A09-0106-08)



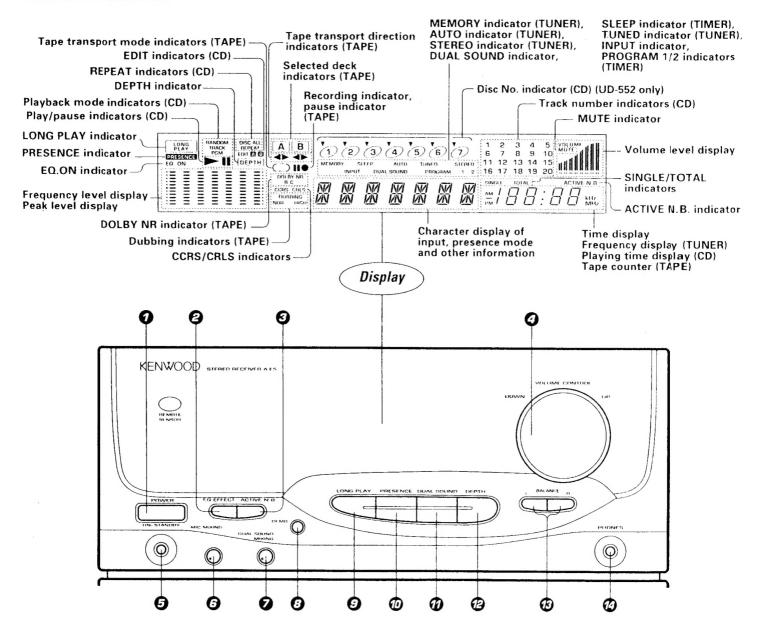
*Speaker cords are packed with the Speakers.

System configuration

System	Receiver/Multicommand	Cassette deck/CD player	System carton box (Parts No.)	Speaker (Othe ≠ package)
UD-502	A-E5/L	X-E5	H60-0225-04	LS-E 5
UD-552	A-E5/L	X-ME5	H60-0268-04 (K) H60-0227-04 (other)	LS-ES

CONTROL

RECEIVER SECTION



- O POWER key
 - Press to turn the power of the system ON/OFF
- Ø EQ. EFFECT key

Press to select an equalizer curve.

- O ACTIVE N.B. key
- O VOLUME CONTROL knob
- **9** MIC jack
- MIC MIXING knob
- O DUAL SOUND MIXING knob

Adjust the volume balance between the environmental sound and music.

O DEMO key

Press to start demonstration.

O LONG PLAY mode key

Press to let the sound play for long hours

PRESENCE key

Press for presence play.

O DUAL SOUND key

Press for Environmental Sound play or presence modeplay.

@ DEPTH key

Press to add a depth in the sound field.

BALANCE keys (LEFT, RIGHT)

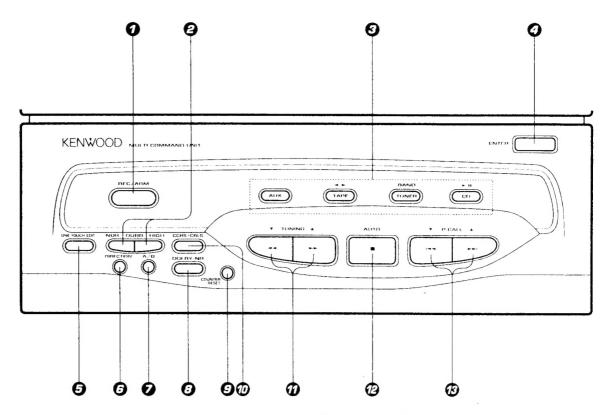
Press to adjust the balance between the left and right olume levels.

O PHONES jack

Insert headphones into this jack.

CONTROL

MULTI COMMAND UNIT SECTION



O REC/ARM key

@ DUBB. keys (HIGH, NOR.)

Press for tape dubbing

1 Input selector keys

CD: Functions as the play/pause key.

TAPE: Functions as the play key.

Pressing during playback changes the tape transport direction.

TUNER: Functions as the BAND key

AUX: Press to play the AUX input source.

O ENTER key

ONE TOUCH EDIT key

Press for simplified CD recording.

O DIRECTION switch key

Deck switch keys (A/B)

Press to select the deck to be operated.

O DOLBY NR key

O COUNTER RESET key

Press to reset the tape counter to 0000.

O CCRS/CRLS key

Tast winding (TUNING) keys

CD, TAPE: Function as the fast forward/backward keys.

TUNER: Function as the TUNING keys.

When power is OFF:

Used to set the timer

@ Stop (AUTO) key

CD, TAPE: Functions as the stop key.
TUNER: Functions as the AUTO key.

When power is OFF:

Activates the clock adjustment mode.

Skip (P.CALL) keys

CD: Function as the skip keys.

TAPE: Function as the skip key, to search the beginning of

music programs.

TUNER: Function as the P.CALL keys.

When power is OFF

Used to adjust the clock or timer operation.

DISASSEMBLY FOR REPAIR

Remove the case in advance.

A) Rear panel

- 1 Disconnect CN8 of X09-402 (C/7).
- 2 Remove the 12 screws (1) of the Rear panel.

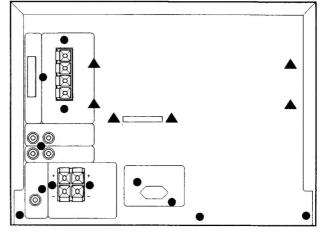
B) TUNER PCB X05-4460-XX / X05-4472-70

- 1 Disconnect CN1.
- 2 While pushing the unit holder, pull the PCB.

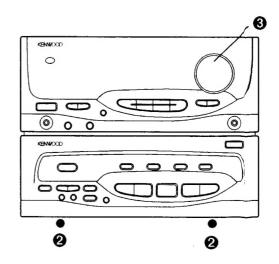
C) Front panel

- 1 Remove the two screws (2) of the lower side of the panei.
- 2 Remove the left part of the panel first. Right part, CN7 and CN6 (X09-404 (B/7)) are connected, so remove the panel carefully.
- 3 When removeing the PCB, remove the VOLUME CONTROL knob (3) by loosening the Allen screws.

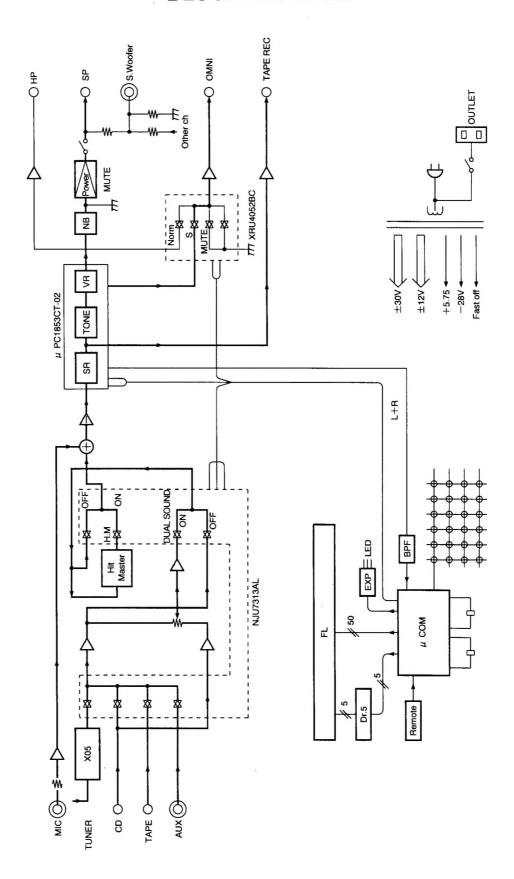
Caution: If Front panel is removed, you can not operate A-E5/L. Don't remove the Front panel when checking the PCB.



- ●: 0 x12
- ▲:No need to remove



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

μ-com: M381907MA-074FP (X14: IC4)

1. Test mode

1-1 Test mode with the main unit keys

(1) Setting procedure

While pressing the CD key, plug the AC power cord to the power outlet.

(2) Cancellation

Unplug the AC power cord. The initial setting will take effect and the test mode will be canceled.

(3) Description

- 1. Auto POWER ON
- When AC power cord is plugged while pressing the CD key, the POWER will turn ON and all function will be at the initial setting. (Input selector=TUNER)
- 2. ALL LED ON mode
- When The AC power cord is plugged while pressing the CD key, all the LEDs will turn ON.
- Two colours LED change to GRN and RED alternately. (250ms interval)
- When some main unit key is pressed, ALL LED ON mode will be canceled and all function will return the LEDs to normal.
- 3. Others
- The operation of main unit keys and remote controller keys during the test mode, refer to the table below.
- The MUTE function does not work during the test mode. (When POWER ON, MUTE is effective.)
- Test mode is not canceled when the input selector is moved TUNER to another source.
- Headphone detection is effective during the test mode.

1-2 Test mode with serial communications (1) Setting procedure

• Enter the TEST ON code. (C27FH)

(2) Cancellation

- Enter the TEST OFF code (C27EH) (Not initialized)
- Unplug the AC power cord. (Initialized)

(3) Description

- The MUTE function does not work during the serial test mode.
- When the codes are received, the same codes are transmitted.
- Codes received during the serial test mode are effective irrespective of the display mode.
- All the LEDs will turn ON. ALL LED ON is cancelled by inputting the cancelling code and returned the LEDs to normal.
- Headphone detection is effective during the test mode.
- Inputting codes of numeric key call memory. (+10 key code is as same function as normal tuner function.)
- Headphone detection is effective during the serial test mode.

	Key	Description		Key	Description
1	POWER	Normal operation	16	EQ.	Normal operation
2	VOLUME UP	Normal operation	17	O.T.E.	Tone max.
3	VOLUME DOWN	Normal operation	18	CCRS	Tone min.
4	CD	Normal operation	19	ENTER	Tone flat
5	TUNER	Normal operation	20	DUAL SOUND	Normal operation
6	TAPE	Normal operation	21	DEPTH	Normal operation
7	AUX	Normal operation	22	BALANCE L	Balance L max
8		Normal operation	23	BALANCE R	Balance R max
9	#	Normal operation	24	REC	Balance center
10	>>	Normal operation	25	DOLBY NR	MUTE ON/OFF
11	H	Normal operation	26	COUNTER RESET	All goes off ON/OFF
12	**	Normal operation	27	ACTIVE N. B.	Normal operation
13	DUBB. NORMAL	Master VOL min.	28	DIRECTION	HIT MASTER ON
14	DUBB. HIGH	Master VOL max.	29	A/B	HIT MASTER OFF
15	PRESENCE	Normal operation			

CIRCUIT DESCRIPTION

Amplifier and Tuner serial test code (C 2 XXH) NEW

3 AMP 4
BALANCE Lch MAX
BALANCE LchRch CENTER
BALANCE Rch MAX

CIRCUIT DESCRIPTION

Ĺ, Ω Ų GE В ¥ TONE max. TONE flat TONE min. 9 DEPTH OFF DEPTH ON PRESENCE JAZZ CLUB PRESENCE ARENA PRESENCE STADIUM 0 9

SURROUND & GE serial test code (C 3 XXH) NEW

CIRCUIT DESCRIPTION

щ ш Ω C GE VOLUME 0 | VOLUME 16 | VOLUME 32 | VOLUME 48 VOLUME 17 VOLUME 33 VOLUME 49 VOLUME 18 VOLUME 34 VOLUME 50 VOLUME 4 VOLUME 20 VOLUME 36 VOLUME 52 VOLUME 5 VOLUME 21 VOLUME 37 VOLUME 53 VOLUME 19 VOLUME 35 VOLUME 51 VOLUME 22 VOLUME 38 VOLUME 54 VOLUME 23 VOLUME 39 VOLUME 55 VOLUME 8 VOLUME 24 VOLUME 40 VOLUME 56 VOLUME 25 VOLUME 41 VOLUME 57 VOLUME 10 VOLUME 26 VOLUME 42 VOLUME 58 VOLUME 11 VOLUME 27 VOLUME 43 VOLUME 59 VOLUME 12 VOLUME 28 VOLUME 44 VOLUME 60 VOLUME 13 VOLUME 29 VOLUME 45 VOLUME 14 VOLUME 30 VOLUME 46 VOLUME 15 VOLUME 31 VOLUME 47 VOLUME 1 VOLUME 3 VOLUME 2 VOLUME 6 VOLUME 7 VOLUME 9

10

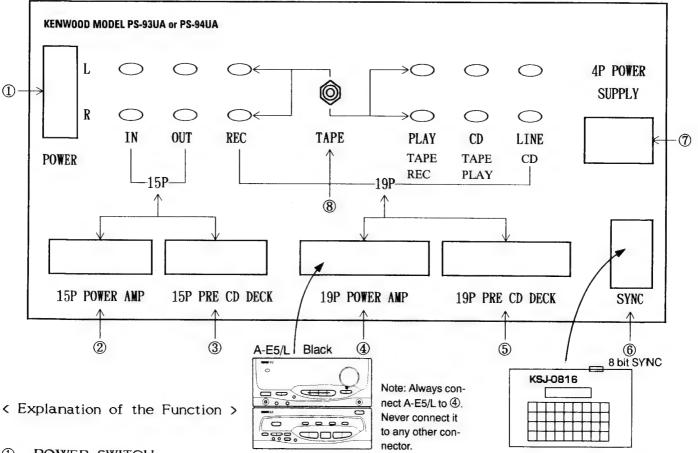
Electronic Volume serial test code (C 4 XXH) NEW

CIRCUIT DESCRIPTION

PS-93UA or PS-94UA Operation Manual

Power supply for the audio model UD series.

Audio signal lines in 15P and 19P flat cable are connected to RCA connectors.



1 POWER SWITCH

This switch should be turned on when using the 15 pin PRE CD DECK 3, the 19 pin PRE CD DECK (5) and the 4 pin power supply (7).

2 15 PIN POWER AMP

Connect to a system which require the 15 pin flat cable for connection, when check the power amp. section.

AC power source is not output from the terminal.

The signals are input and output to the RCA terminals and SYNC terminal on the front panel.

(ex: A-711, A-722, A-A7, B-922, B-A9, etc)

CIRCUIT DESCRIPTION

(3) 15 PIN PRE CD DECK

Connect to a system which require the 15 pin flat cable for connection, when check the functions except power section AMP.

The AC power are supplied to the pin No.12-13 for 9 V and the pin No.14-15 for 16 V from the terminal.

The signal flow are same as 15 pin power AMP terminal.

(ex: DP-711, DP-722, DP-A7, C-922, X-711, X-722, X-A7, etc)

4 19 PIN POWER AMP

Connect to a system which require the 19 pin flat cable for connection, when check the power AMP section.

The AC power is not supplied in the terminal.

The signals are input and output to the RCA terminal on the front panel.

(ex: A-B7, A-B3, B-B9, A-E5, A-E7, B-E9, etc)

(5) 19 PIN PRE CD DECK

Connect to a system which require the 19 pin flat cable for connection, when check the component except power AMP. This terminal have the 4 system AC power supplies which is located to the pin No.13 to pin No.19.

(ex: X-B9, X-B5, X-B3, C-B9, DP-B5, DP-MB5, X-E5, X-ME5, X-E7, X-ME7, DP-E9 X-E9, C-E9 etc)

6 SYNC TERMINAL

Connect to the SYNCHRO CHECK JIG KSJ-0816. It can be controlled the system code 8 bit or 16 bit to the test set.

7) 4 PIN POWER SUPPLY

Output terminal for AC 9 V and AC 16 V. It can be used supply the AC power to DECK, CD, TUNER for MIDI system.

® TAPE SWITCH

The signal for deck of 19 pin terminal are share a well with the REC and PLAY. So, please change the TAPE SW when DECK mode is PLAY or STOP then turn to the play, when DECK mode is REC or REC pause then turn to the REC. (ex: X-B9, X-B5, X-B3, X-E9)

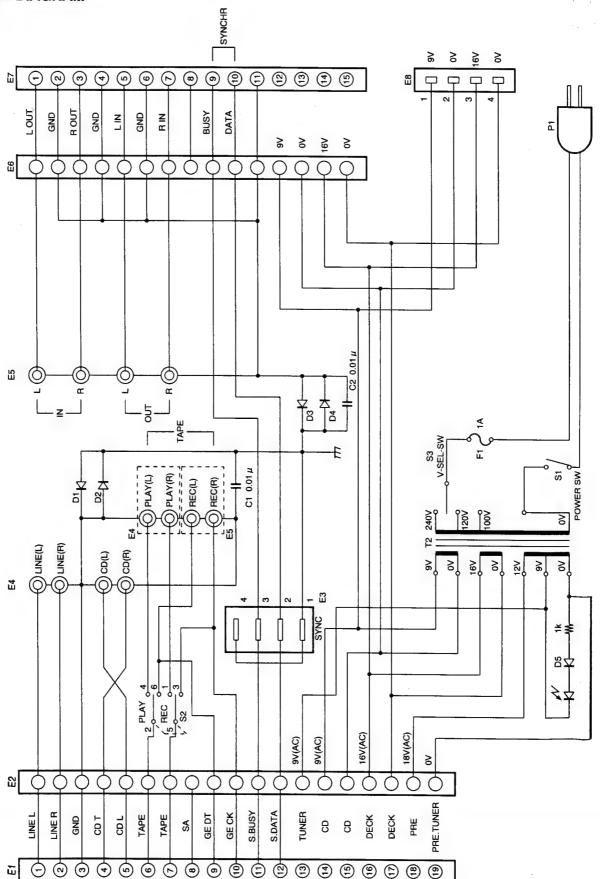
< NOTE >For limited power supply's capacity, maximum connection is only one sets.

Do not connect a set together both with the 15 pin terminal and 19 pin terminal.

In/output signals will shift as specified in the caution label when A-E5, A-E7, X-E5, X-ME5, X-E7, and X-ME7.

CIRCUIT DESCRIPTION

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1-3 Backup operation

The receiver microcomputer goes into backup mode when the AC power goes off. Therefore, the last state when the power was turned off is stored the next time the power is turned on.

1) Backup mode

Each 1 ms, the receive microcomputer checks the CE port and if CE=low, it goes into backup mode. When it goes into backup mode, it carries out the series of operations below, then stops the main clock (8.38 MHz). It does not come out of backup mode until a reset is input.

2) Operations upon entry into backup mode

- · Interrupts inhibited
- · Mute on
- · Fluorescent display drive stopped
- A/D stopped
- SIO stopped
- · Subclock (32 kHz) stopped
- · Interrupt enable flags all cleared
- · Hard timer stopped
- · Port data set to all 0s
- Port mode set (Setting the input ports to input mode and the input/output ports and the output ports to output mode is easy.)
- · Data set in backup check RAM (cleared in test mode)
- Main clock stopped (to go into stop mode)

3) Data restoration upon reset

When the system is reset, if the backup check RAM value matches the value set when the system went into backup mode, then the modes below are restored.

- AMP -
- Power mode
 (If the last state was power on, the power is turned on when the system is reset.)

(If the last state was power off, the power is turned off when the system is reset.)

- · Last selector mode
- Master volume
- EQ. and Presence modes
- Active N.B. state
- Last clock data (However, the clock is not counted and the last time data blinks.)
- · Program setting contents and setting mode
- Tuner -
- Last band and preset channels and frequencies
- · Last frequency and preset channels for each band
- · Preset memory data (Ch. 1 Ch. 20)
- AUTO/MANUAL (MONO) mode

1-4 Default values

The microcomputer RAM is all cleared (initialized) to initialize the system (set).

1-5 Initialization conditions

- When the AC power is turned on while pressing the main unit ENTER key
- During serial test mode, when serial code C27DH is received
- When the power cord is unplugged during test mode entered with a key on the main unit or during serial test mode
- When the backup data is destroyed

Under the above conditions, the receiver microcomputer is initialized. When it is initialized, it goes into the states in the table below (default states).

Default states

System	Power off
Clock Prog.	Clock stop (0:00 a.m.) Prog. operation mode:OFF Prog. 1: ON=0:00AM OFF=0:00AM MOD=PLAY SOC=TUNER (Ch 1) Prog. 2: ON=0:00AM OFF=0:00AM MOD=PLAY SOC=TUNER (Ch 1)
Amp	VOLUME: 7SEG=5 (μPC1853 VOL data=8) Selector: TUNER EQ.:OFF PRESENCE:OFF LONG PLAY:OFF ACTIVE N.B.:OFF MUTING:OFF
Tuner	Band:FM Last band FM: P.CH=CH FREQ=min (76.0 MHz or 87.5 MHz) AM (MW): P.CH=CH FREQ=min (530 kHz or 531 kHz) LW: P.CH=CH FREQ=min (153 kHz) P. CH memory Ch. 1 - Ch. 20: Test frequency Tuning mode:AUTO (AUTO STEREO)

CIRCUIT DESCRIPTION

1-6 Timer operation

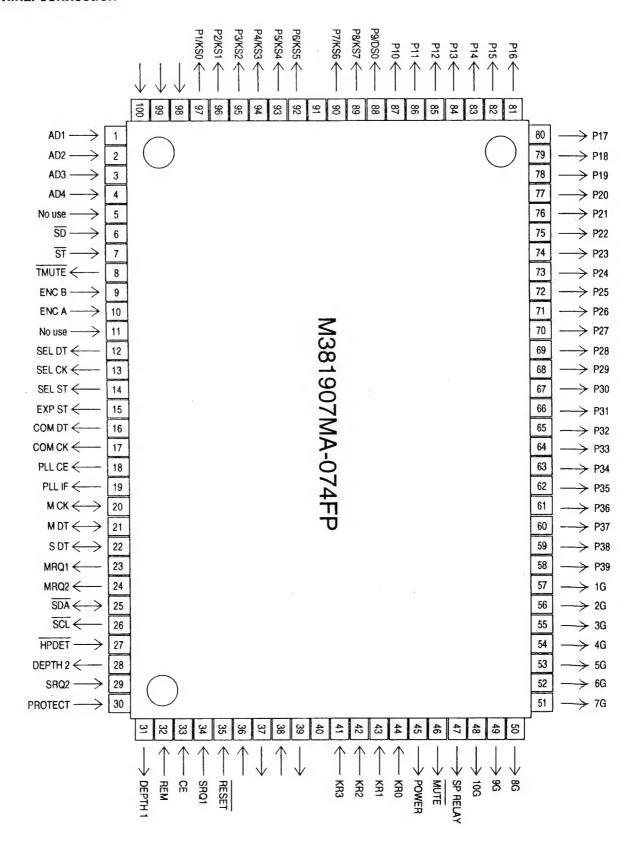
There are two program timers, Prog. 1 and Prog. 2. There are three execution modes: Prog. 1 only execution, Prog. 2 only execution, and Prog. 1 and Prog. 2 execution. The system is switched among these execution modes by pressing the ▶▶ (EXEC.) key with the power off.

Each program timer operates while the power is off when its execution mode is on. However, if the on time and the off time are the same, they do not operate even if their execution mode is on.

When the power is turned on with the program timer, the display for whichever of Prog. 1 or Prog. 2 is operating blinks on/off every 500 ms. When the mode switches to normal power on, this blinking stops. In the current specifications, since program timer control becomes impossible when the power is on, when the power is turned on with a program timer, this is indicated. The only way to leave the mode of the power having been turned on by a program timer is to turned the power off, then on again.

CIRCUIT DESCRIPTION

Terminal connection



CIRCUIT DESCRIPTION

1-7 Terminal description

Pin No.	Pin Name	Name	I/O	Description	Note
1	P 77/AN 7	AD 1	(A/D)	SPEANA SIGNAL LEVEL	A/D : 63 Hz
2	P 76/AN 6	AD 2	(A/D)	SPEANA SIGNAL LEVEL	A/D : 400 Hz
3	P 75/AN 5	AD 3	(A/D)	SPEANA SIGNAL LEVEL	A/D : 2.5 kHz
4	P 74/AN 4	AD 4	(A/D)	SPEANA SIGNAL LEVEL	A/D : 16 kHz
5	P 73/AN 3		ı	NOUSE	
6	P 72/AN 2	SD	I	SD DETECT	H: no tuned L: tuned
7	P 71/AN 1	ST	ı	STEREO DETECT	H : monoral L : stereo
8	P 70/AN 0	TMUTE	0	TUNER MUTE CONTROL	H: tuner mute OFF L: tuner mute ON
9	PB 3	ENCB	1	ENCORDER B SIGNAL	
10	PB 2/DA	ENCA	1	ENCORDER A SIGNAL	
11	P 57/SRDY 3/AN 15		1	NO USE	
12	P 56/SCLK 3/AN 14	SELDT	0	TC 9164 DATA	
13	P 55/SOUT 3/AN 13	SELCK	0	TC 9164 CLOCK	
14	P 54/SIN 3/AN 12	SELST	0	TC 9164 STROBE	
15	P 53/SRDY 2/AN 11	EXPST	0	M 66310 STROBE	
16	P 52/SCLK 2/AN 10	COMDT	0	M 66310/LC 7218 DATA	
17	P 51/SOUT 2/AN 9	COMCK	0	M 66310/LC 7218 CLOCK	
18	P 50/SIN 2/AN 8	PLLCE	0	LC 7218 CE	
19	P 67/SRDY 1/CS /SCLK 12	PLLIF	0	LC 7218 DO	
20	P 66/SCLK 11	MCK	1/0	μCOM-μCOM MASTER CLOCK	
21	P 65/SOUT 1	MDT	1/0	μCOM-μCOM MASTER DATA/SDATA	
22	P 64/SIN 1	SDT	1/0	μCOM-μCOM SLAVE DATA/SBUSY	
23	P 63/CNTR 1	MRQ 1	0	μCOM-μCOM MASTER REQUEST 1 (CD)	
24	P 62/CNTR 0	MRQ 2	0	μCOM-μCOM MASTER REQUEST 2 (DECK)	
25	P 61/PWM	SDA	1/0	μPC 1853 DATA (I²B)	
26	P 60	SCL	0	μPC 1853 CLOCK (I²B)	
27	P 47/T 3 OUT	HPDET	I	HEAD PHONE DETECT	H: headphone OFF L: headphone ON
28	P 46/T 2 OUT	DEPTH 2	0	DEPTH CIRCUIT CONTROL 2	H: omni circuit ON L: omni circuit OFF
29	P 45/INT 1/ZCR	SRQ 2	1	μCOM-μCOM SLAVE REQUEST 2 (DECK)	
30	P 44/INT 4	PROTECT	1	PROTECTION DETECT	H: protection L: normal
31	P 43/INT 3	DEPTH 1	0	DEPTH CIRCUIT CONTROL 1	H: depth circuit ON L: depth circuit OFF
32	P 42/INT 2	REM	ı	REMOCON SIGNAL	
33	P 41	CE		CHIP ENABLE	H : enable L : disable
34	P 40/INT 0	SRQ 1	1	μCOM-μCOM SLAVE REQUEST 1 (CD)	
35	RESET	RESET	ı	RESET (μCOM HARD RESET)	
36	PB 1/XCIN		I	32.768 kHz CRYSTAL	
37	PB 0/XCOUT		0	32.768 kHz CRYSTAL	
38	XIM		I	8.38 MHz CERAMICS	

CIRCUIT DESCRIPTION

Pin No.	Pin Name	Name	1/0	Description	Note
39	XOUT		0	8.38 MHz CERAMICS	
40	VSS		_	GND (μCOM POWER SUPPLY	
41	P 27	KR 3	ı	KEY RETURN 3	
42	P 26	KR 2	I	KEY RETURN 2	
43	P 25	KR 1	1	KEY RETURN 1	
44	P 24	KR 0	1	KEY RETURN 0	
45	P 23/DIG 19	POWER	0	POWER RELAY CONTROL	H: power relay ON L: power relay OFF
46	P 22/DIG 18	MUTE	0	MUTE CONTROL	H: mute OFF L: mute ON
47	P 21/DIG 17	SPRELAY	0	SPEAKER RELAY CONTROL	H: speaker relay ON L: speaker relay OFF
48	P 20/DIG 16	10 G	0	FL GRID (10 G)	
49	P 17/DIG 15	9 G	0	FL GRID (9 G)	
50	P 16/DIG 14	8 G	0	FL GRID (8 G)	
51	P 15/DIG 13	7 G	0	FL GRID (7 G)	
52	P 14/DIG 12	6 G	0	FL GRID (6 G)	
53	P 13/DIG 11	5 G	0	FL GRID (5 G)	
54	P 12/DIG 10	4 G	0	FL GRID (4 G)	
55	P 11/SEG 41/DIG 9	3 G	0	FL GRID (3 G)	
56	P 10/SEG 40/DIG 8	2 G	0	FL GRID (2 G)	
57	P 7/SEG 39/DIG 7	1 G	0	FL GRID (1 G)	
58	P 6/SEG 38/DIG 6	P 39	0	FL SEGMENT (P 39)	
59	P 5/SEG 37/DIG 5	P 38	0	FL SEGMENT (P 38)	
60	P 4/SEG 36/DIG 4	P 37	0	FL SEGMENT (P 37)	
61	P 3/SEG 35/DIG 3	P 36	0	FL SEGMENT (P 36)	
62	P 2/SEG 34/DIG 2	P 35	0	FL SEGMENT (P 35)	
63	P 1/SEG 33/DIG 1	P 34	0	FL SEGMENT (P 34)	
64	P 0/SEG 32/DIG 0	P 33	0	FL SEGMENT (P 33)	
65	P 37/SEG 31	P 32	0	FL SEGMENT (P 32)	
66	P 36/SEG 30	P 31	0	FL SEGMENT (P 31)	
67	P 35/SEG 29	P 30	0	FL SEGMENT (P 30)	
. 68	P 34/SEG 28	P 29	0	FL SEGMENT (P 29)	1
69	P 33/SEG 27	P 28	0	FL SEGMENT (P 28)	
70	P 32/SEG 26	P 27	0	FL SEGMENT (P 27)	
71	P 31/SEG 25	P 26	0	FL SEGMENT (P 26)	
72	P 30/SEG 24	P 25	0	FL SEGMENT (P 25)	
73	P 97/SEG 23	P 24	0	FL SEGMENT (P 24)	
74	P 96/SEG 22	P 23	0	FL SEGMENT (P 23)	
75	P 95/SEG 21	P 22	0	FL SEGMENT (P 22)	
76	P 94/SEG 20	P 21	0	FL SEGMENT (P 21)	
77	P 93/SEG 19	P 20	0	FL SEGMENT (P 20)	
78	P 92/SEG 18	P19	0	FL SEGMENT (P 19)	
79	P 91/SEG 17	P 18	0	FL SEGMENT (P 18)	
80	P 90/SEG 16	P 17	0	FL SEGMENT (P 17)	

CIRCUIT DESCRIPTION

Pin No.	Pin Name	Name	1/0	Descritpion	Note
81	P 87/SEG 15	P 16	0	FL SEGMENT (P 16)	
82	P 86/SEG 14	P 15	0	FL SEGMENT (P 15)	
83	P 85/SEG 13	P 14	0	FL SEGMENT (P 14)	
84	P 84/SEG 12	P 13	0	FL SEGMENT (P 13)	
85	P 83/SEG 11	P 12	0	FL SEGMENT (P 12)	
86	P 82/SEG 10	P 11	0	FL SEGMENT (P 11)	
87	P 81/SEG 9	P 10	0	FL SEGMENT (P 10)	
88	P 80/SEG 8	P 9/DS 0	0	FL SEGMENT (P 9)/DIODE SCAN 0	
. 89	PA 7/SEG 7	P 8/KS 7	0	FL SEGMENT (P 8)/KEY SCAN 7	
90	PA 6/SEG 6	P 7/KS 6	0	FL SEGMENT (P 7)/KEY SCAN 6	
91	VCC		_	VDD (μCOM POWER SUPPLY)	
92	PA 5/SEG 5	P 6/KS 5	0	FL SEGMENT (P 6)/KEY SCAN 5	
93	PA 4/SEG 4	P 5/KS 4	0	FL SEGMENT (P 5)/KEY SCAN 4	
94	PA 3/SEG 3	P 4/KS 3	0	FL SEGMENT (P 4)/KEY SCAN 3	
95	PA 2/SEG 2	P 3/KS 2	0	FL SEGMENT (P 3)/KEY SCAN 2	
96	PA 1/SEG 1	P 2/KS 1	0	FL SEGMENT (P 2)/KEY SCAN 1	
97	PA 0/SEG 0	P 1/KS 0	0	FL SEGMENT (P 1)/KEY SCAN 0	
98	VEE		_	-30 V (μCOM POWER SUPPLY)	
99	AVSS		_	GND (A/D REFERENCE VOLTAGE)	
100	VREF		_	+5 V (A/D REFERENCE VOLTAGE)	

ADJUSTMENT

X05-4472-70 (E, T type)

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM S	SECTION SELE	CTOR: FM					
1	DISCRIMINATOR	Connect a DC voltmeter between	AUTO or MONO	L3 (X05-)	ov	(-)	
	DISSIMINATION	1kHz, ±75kHz dev 60dBμ(ANT input)	TP3 and TP4. (X05-)	98.0MHz	. L4 (X05-)	Minimum distortion.	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R Pilot: ±6.75kHz dev. 60dBµ(ANT input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
3	SEPARATION	(C) 98.0MHz Stereo signal 60dBμ(ANT input)	(B)	AUTO 98.0MHz	VR3 (X05-)	Minimum crosstalk.	
4	TUNING LEVEL	(A) 98.0MHz 0 dev 14dBμ(ANT input) 75Ω 18dBμ(ANT input) 300Ω	(B)	AUTO or MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes ON.	
AM S	SECTION SELI	ECTOR: AM(MW)					
(1)	TUNING LEVEL	(D) 1008 kHz 20 dBμ(ANT input)	(B)	1008 kHz	VR2 (X05-)	Adjust VR2 and stop at the point where ED1 (TUNED) goes ON.	

X05-446X-XX (ENGLISH)

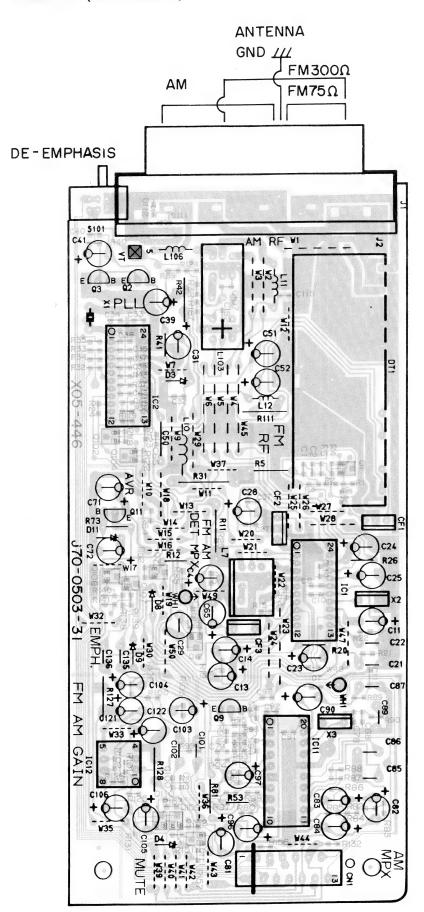
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM S	ECTION Unle BAND: FM	ess otherwise specified	l, the individual sw	vitches should t	be set as following	g:	
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	

X05-446X-XX (ESPANOL)

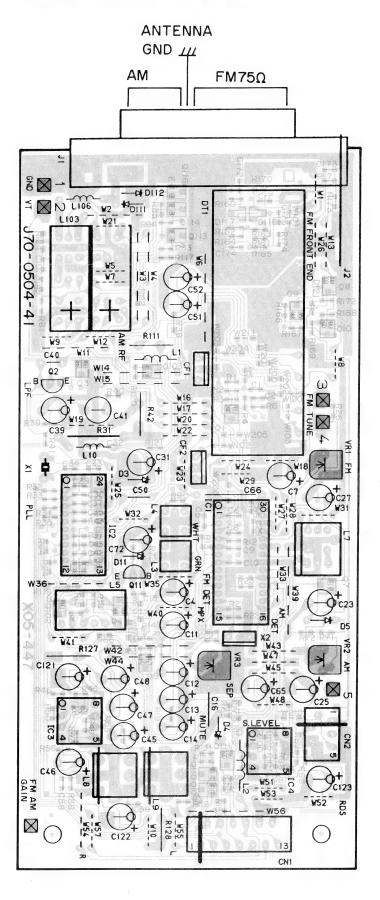
N.°	ÍTEM	AJUSTES DEE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SEC	CIÓN DE FM A mo BAND: FM	enos que se especifiq	ue otra cosa, los	controles individu	ales deberán ajus	tarse de la forma siguient e:	
1	DISTORTIÓN (ESTÉREO)	(C) 98,0MHz 1kHz, ±68,25kHz des Selector: L o R - 60dBμ(entrada de ANT)	(B)	AUTO 98,0MHz	IFT (W02-)	Distorsión mínima.	

PC BOARD (Component side view)

Tuner unit (X05-4460-XX)

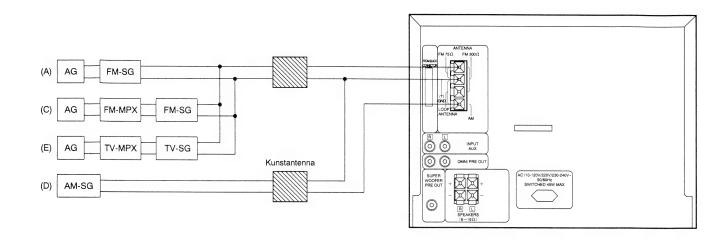


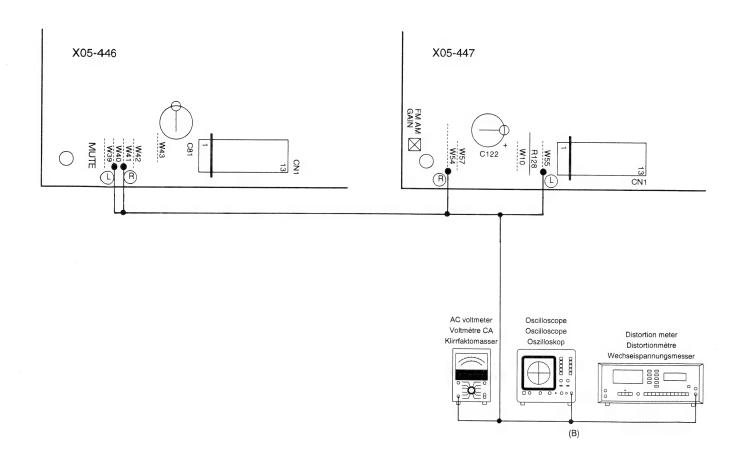
Tuner unit (X05-4472-70) T, E type



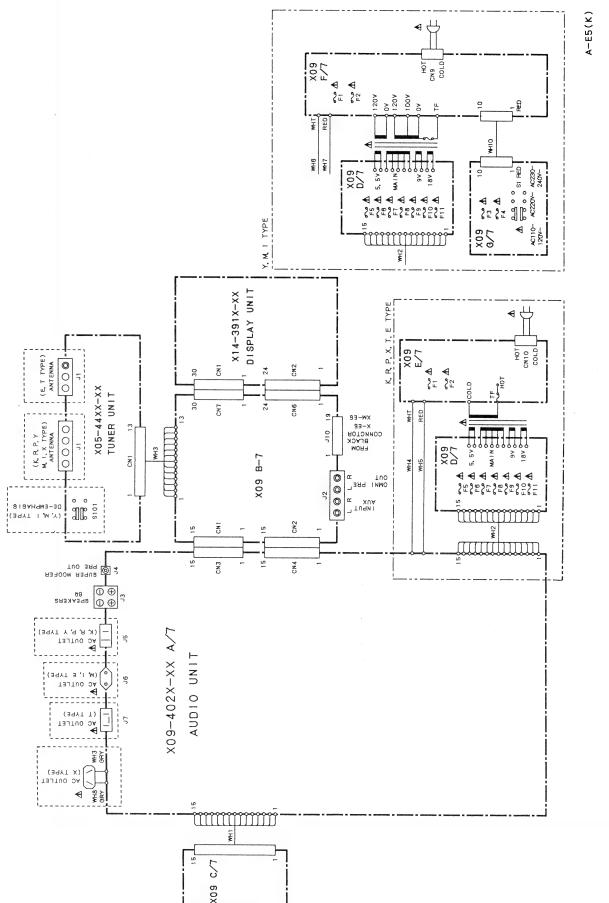
A-E5/L A-E5/L

ADJUSTMENT



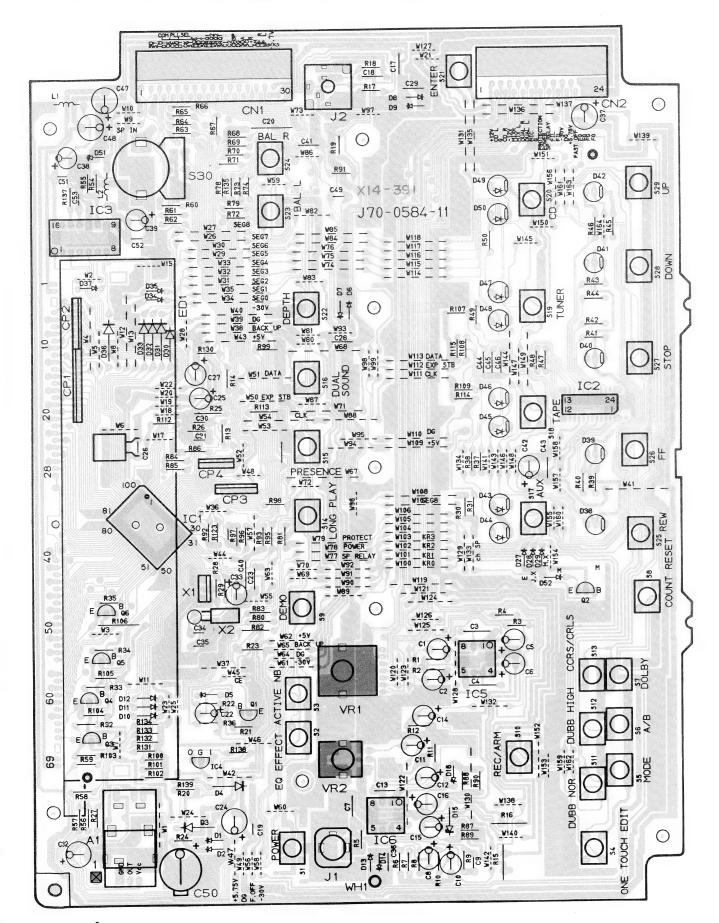


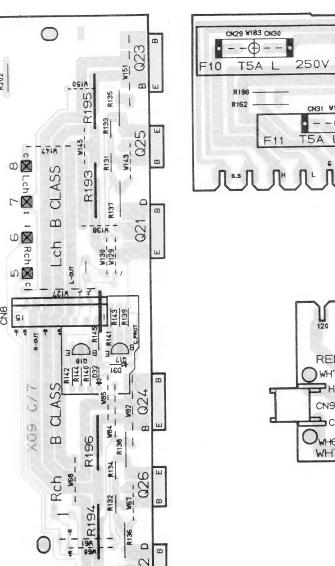
WIRING DIAGRAM

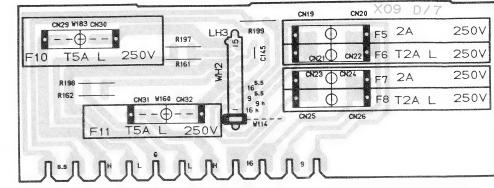


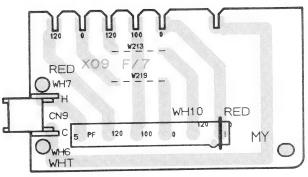
PC BOARD (Component side view)

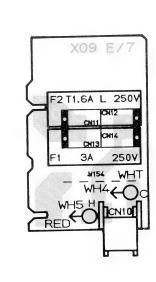
Display unit (X14-391X-XX)

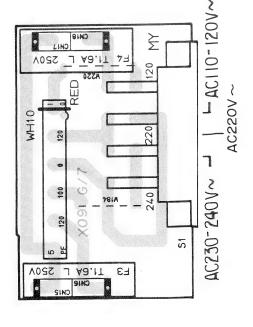










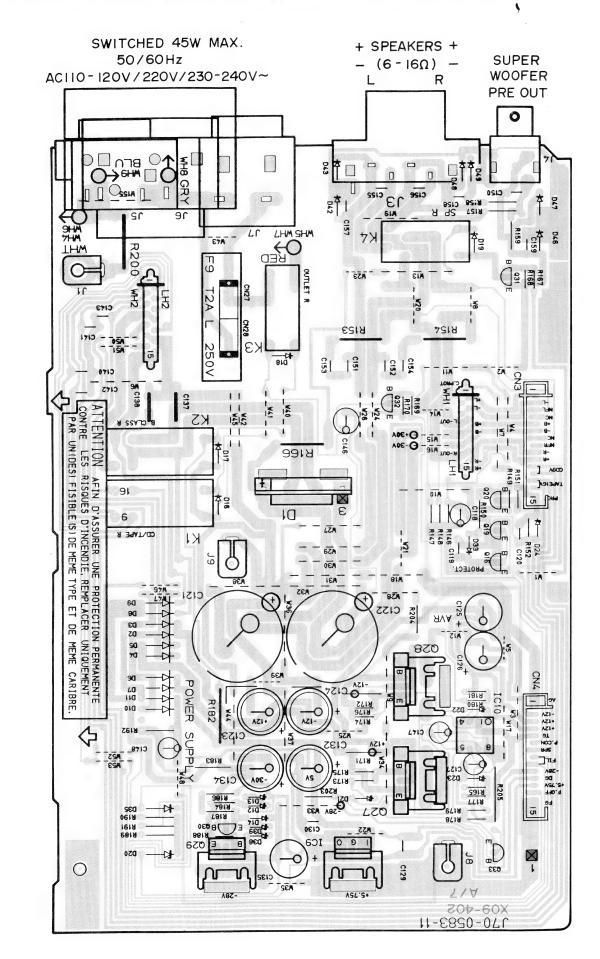


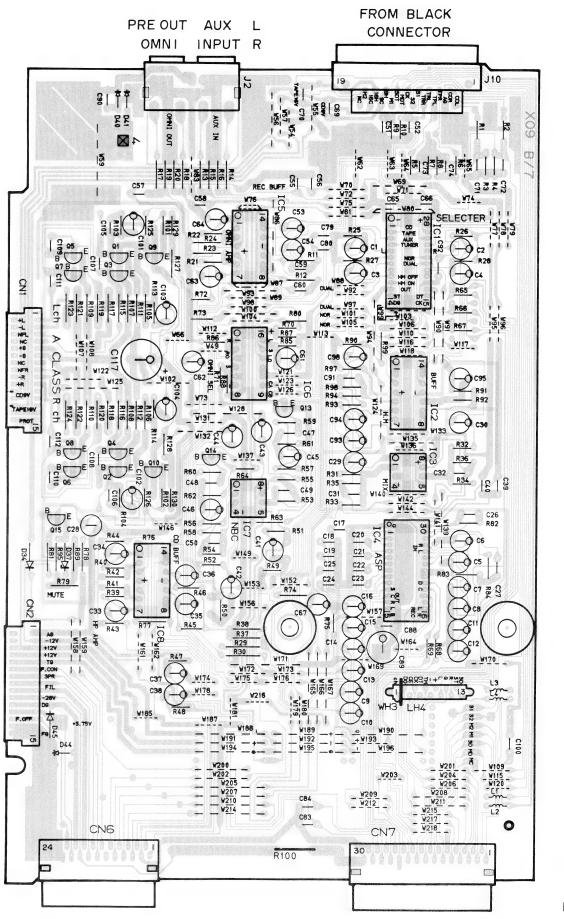
27

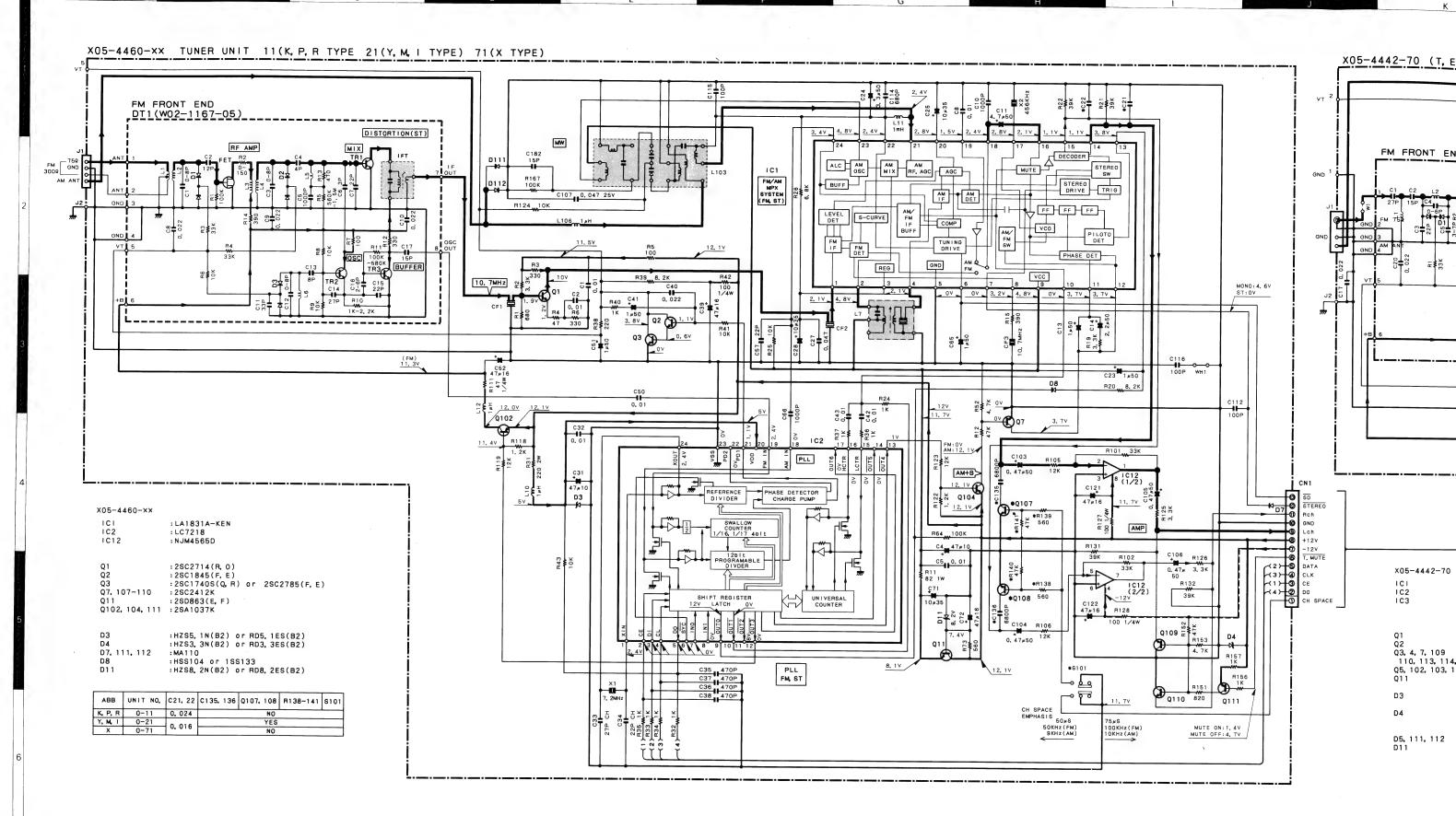
0

PC BOARD (Component side view)

Audio unit (X09-402X-XX)





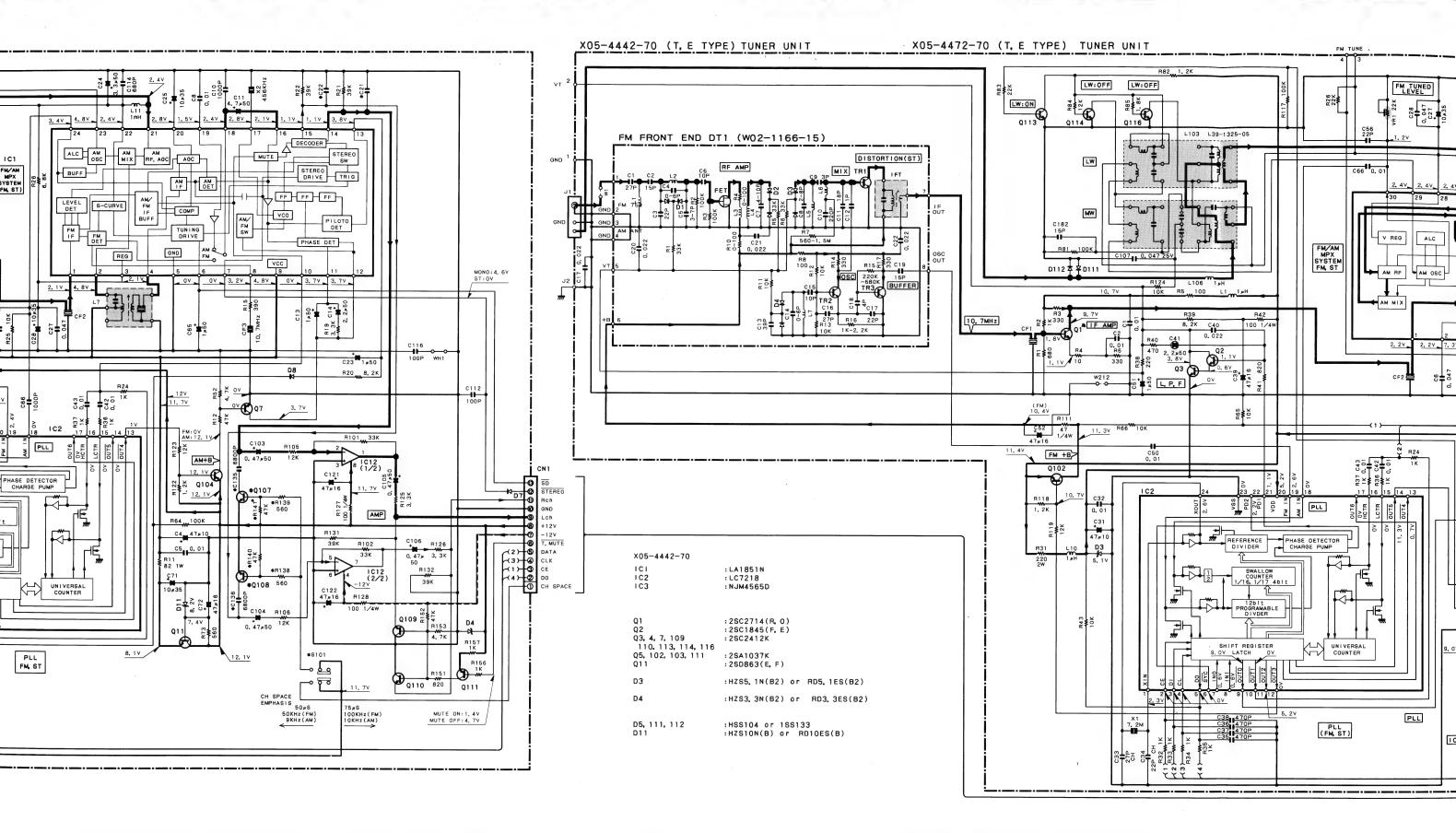


DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gehohmigen Spanna (mit einer Feldstäke Dabei schwanken dehen einzelnen Insteingeklammerten Geines MW-Signals (schluß) gemessen.



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

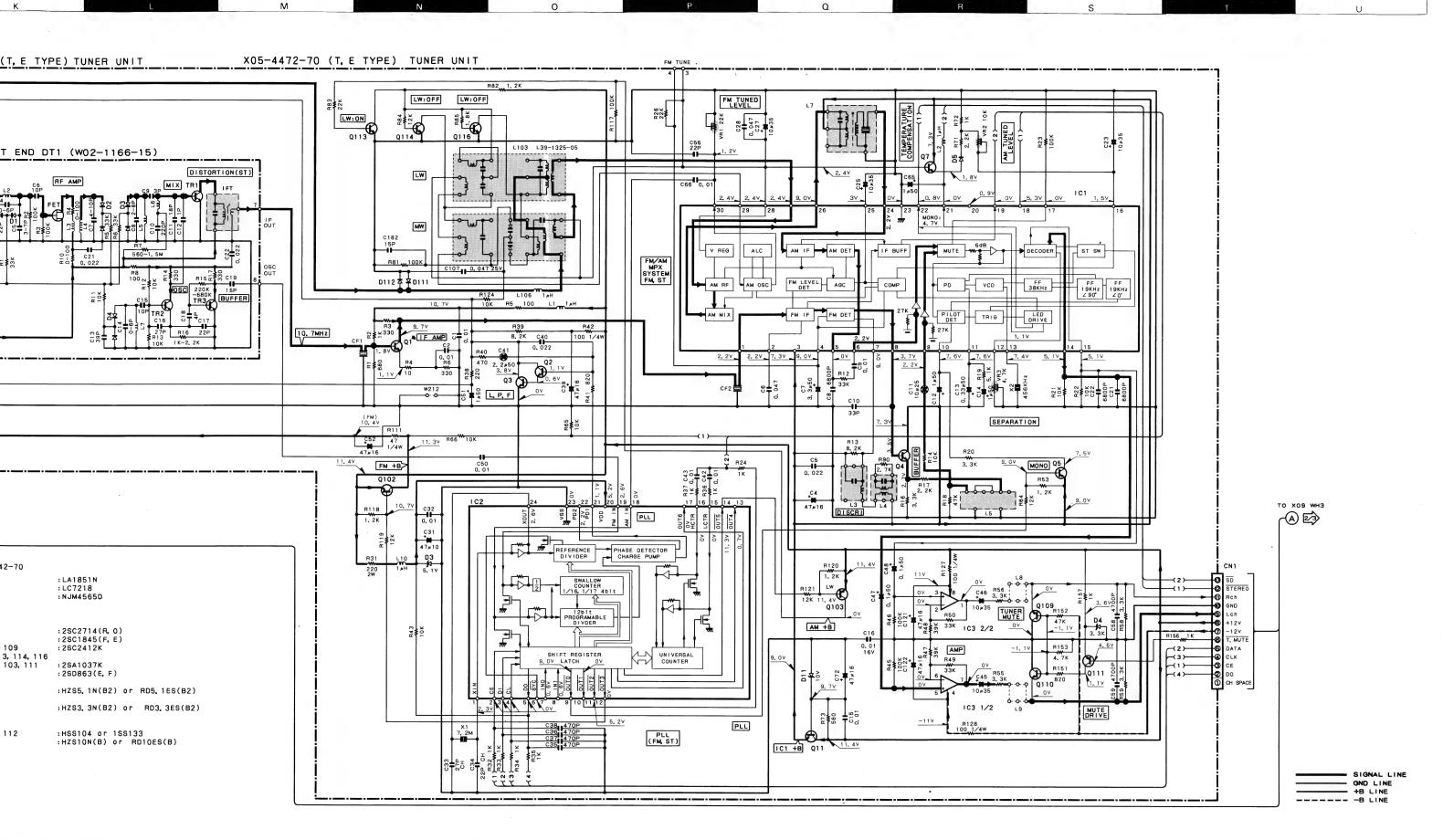
appareils et aux instruments de measure individuels.

Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswertre wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.

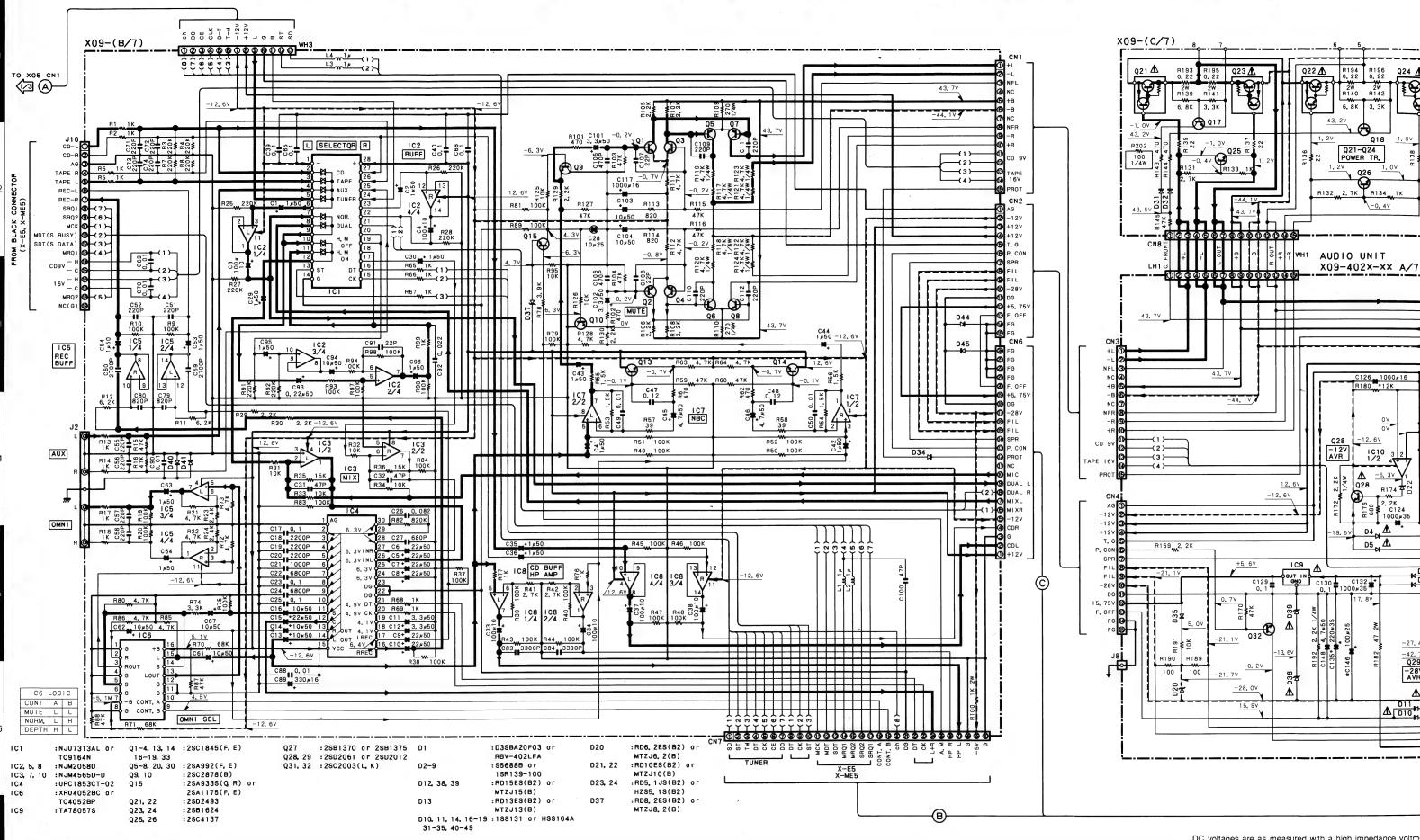
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



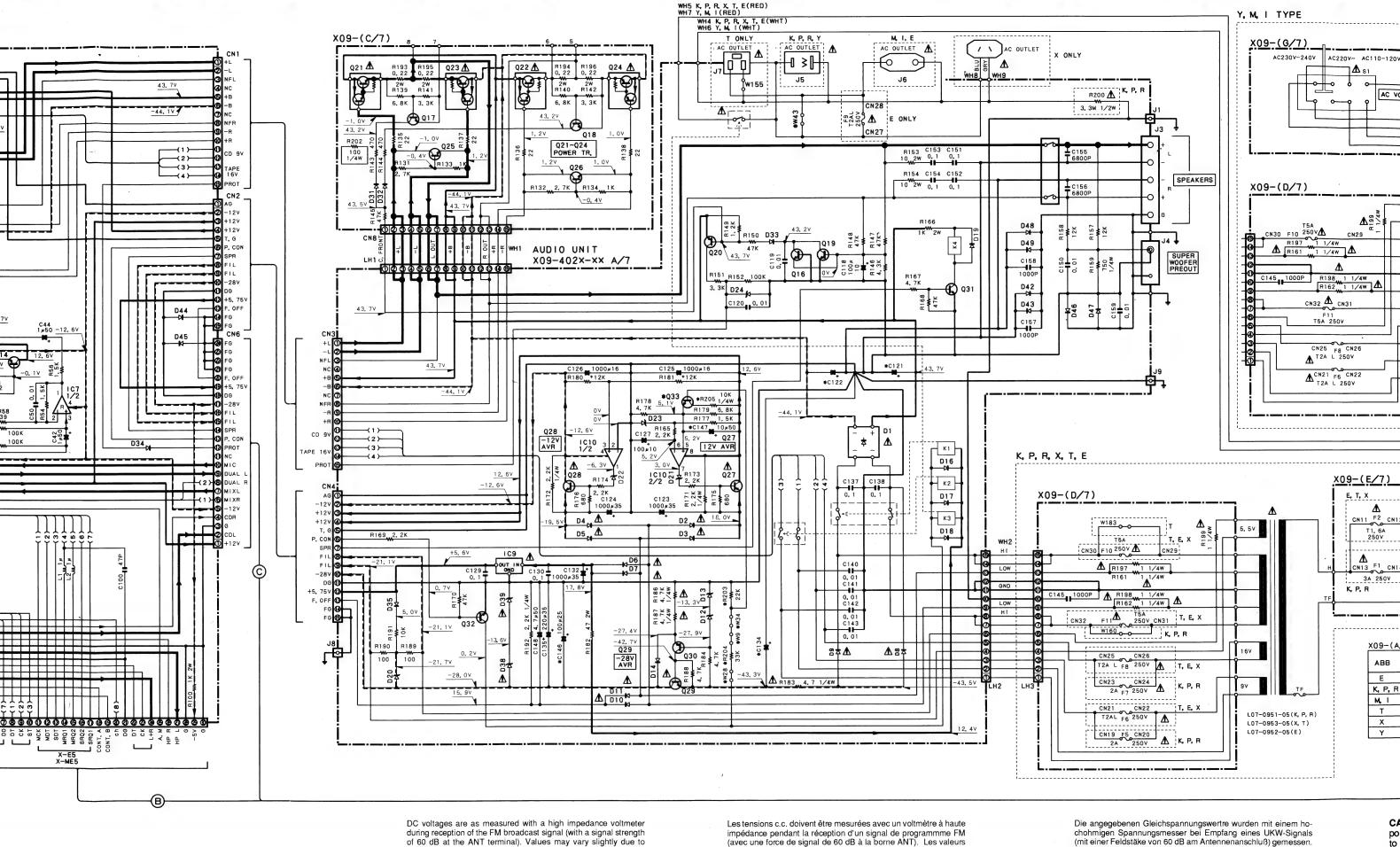
benen Gleichspannungswertre wurden mit einem ho-Spannungsmesser bei Empfang eines UKW-Signals eldstäke von 60 dB am Antennenanschluß) gemessen, anken die Meßwerte aufgrund von Unterschieden zwisnen Instrumenten oder Geräten u. U. geringfügig. Die lerten Gleichspannungswerte wurden bei Empfang ignals (mit einer Feldstäke von 60 dB am AntennenanCAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

A-E5/L KENWOOD



DC voltages are as measured with a high impedance voltm during reception of the FM broadcast signal (with a signal stret of 60 dB at the ANT terminal). Values may vary slightly du variations between individual instruments or/and units. Value parentheses are as measured during reception of the AM broad signal (with a signal strength of 60 dB at the ANT terminal).

ΑD



during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

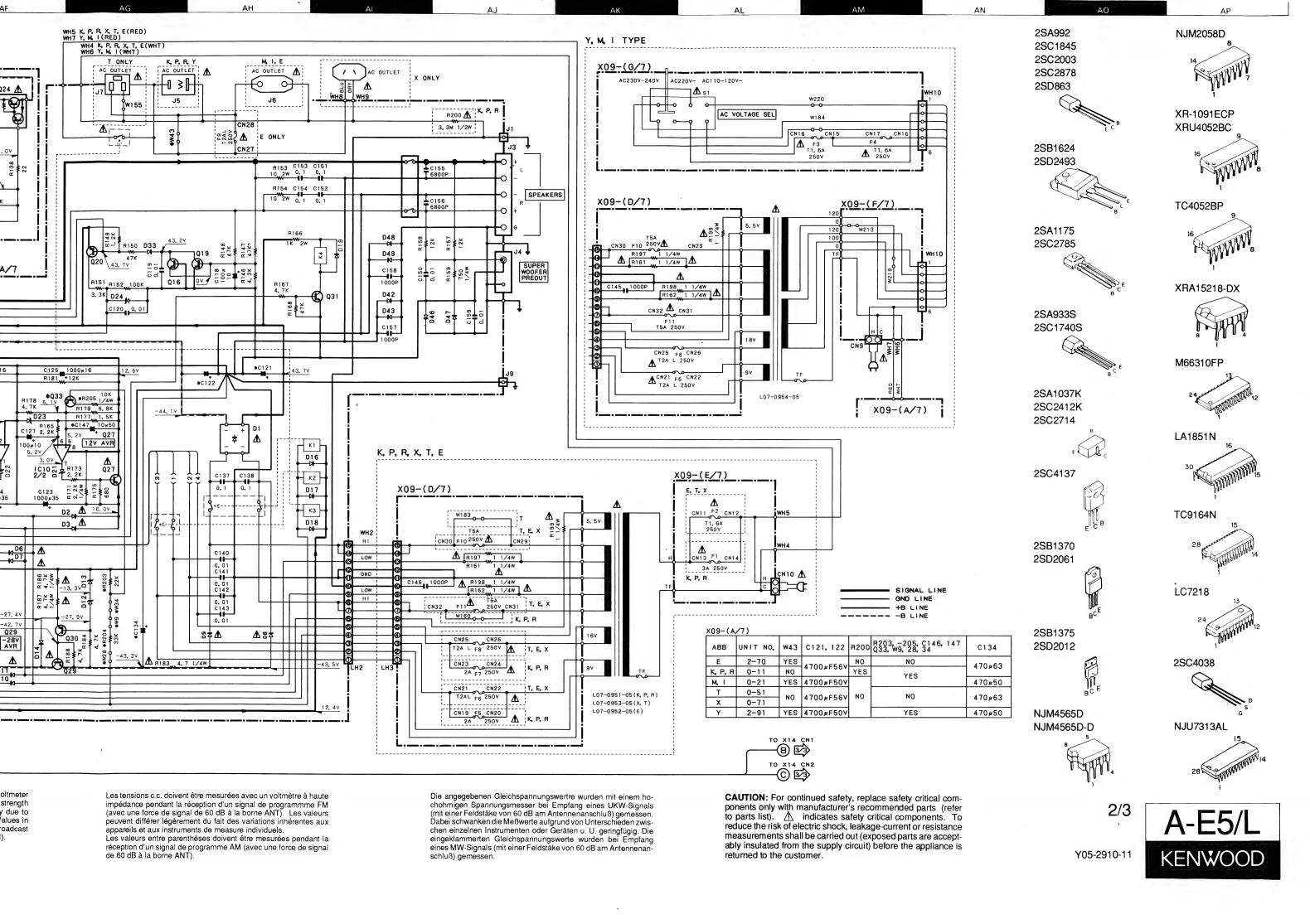
ΑD

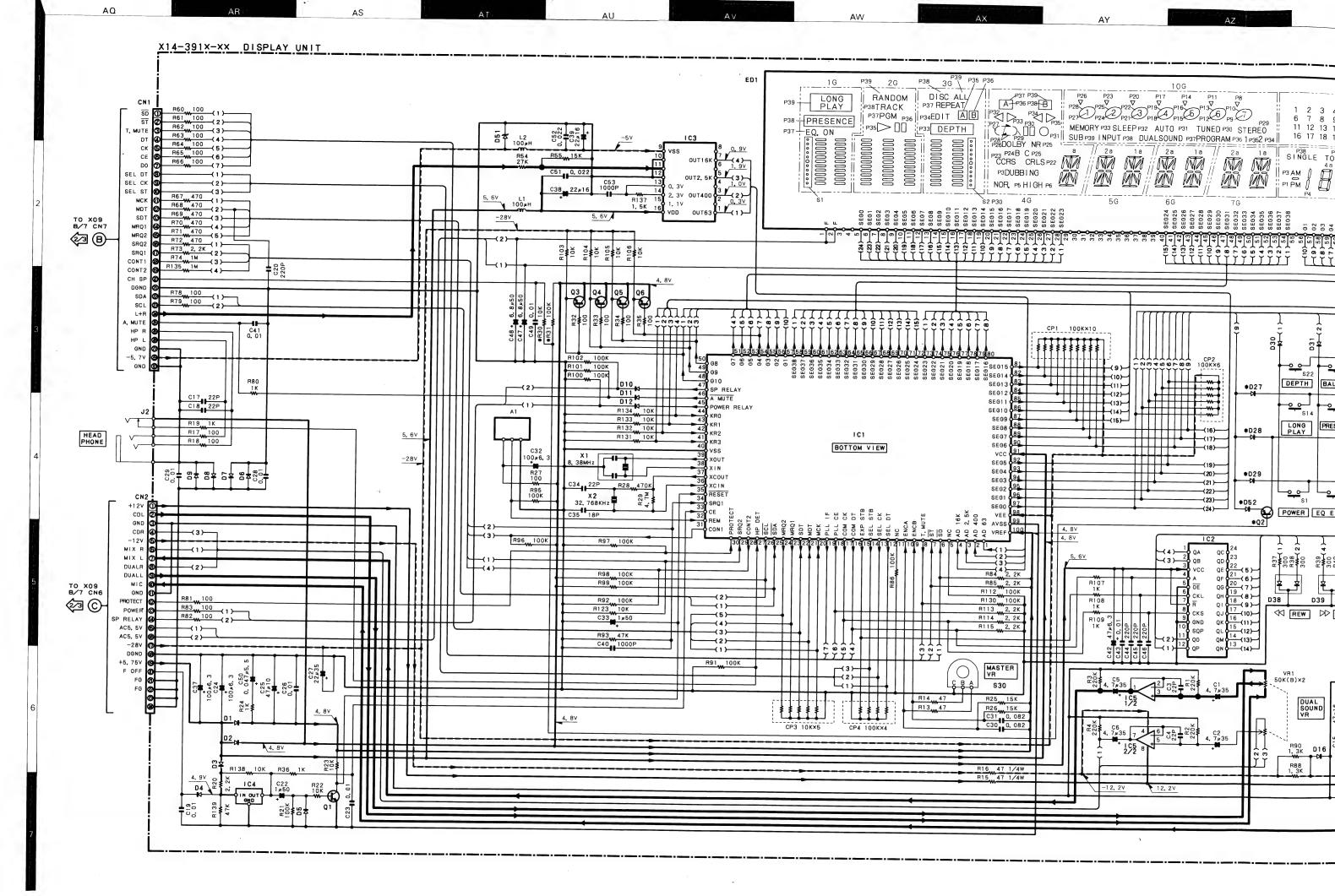
AB

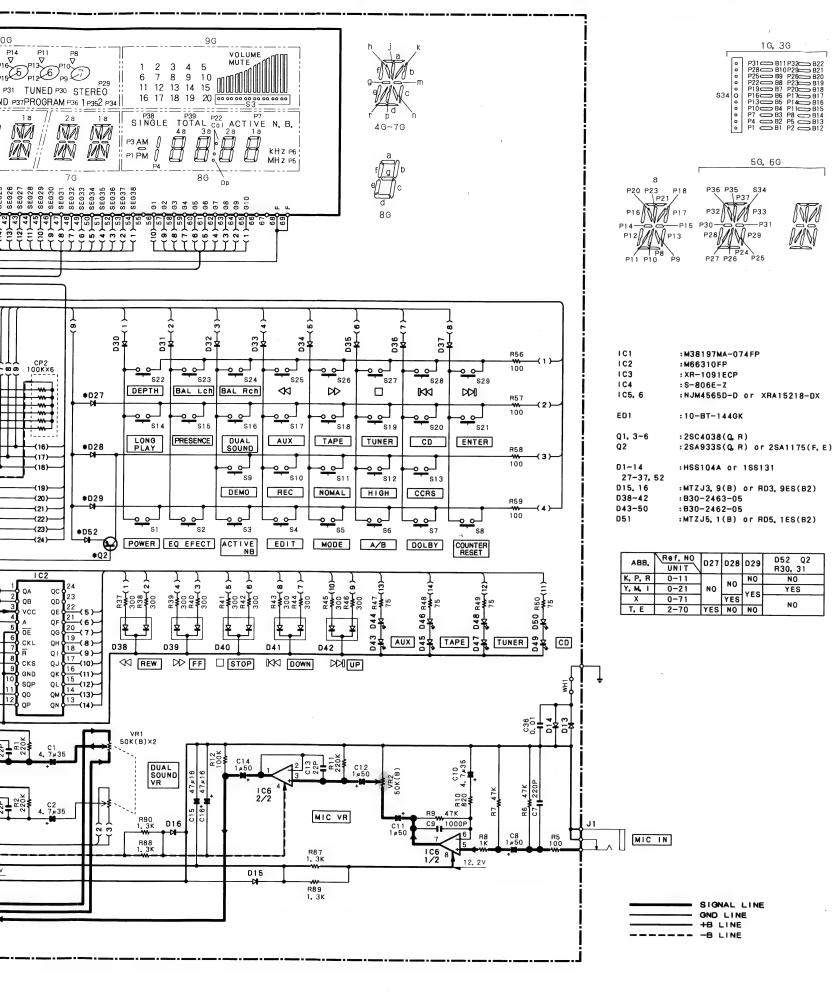
(avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

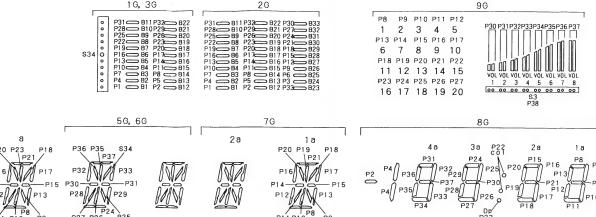
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de $60~\mathrm{dB}$ à la borne ANT).

Die angegebenen Gleichspannungswertre wurden mit einem ho-chohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.









DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswertre wurden mit einem ho-chohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.

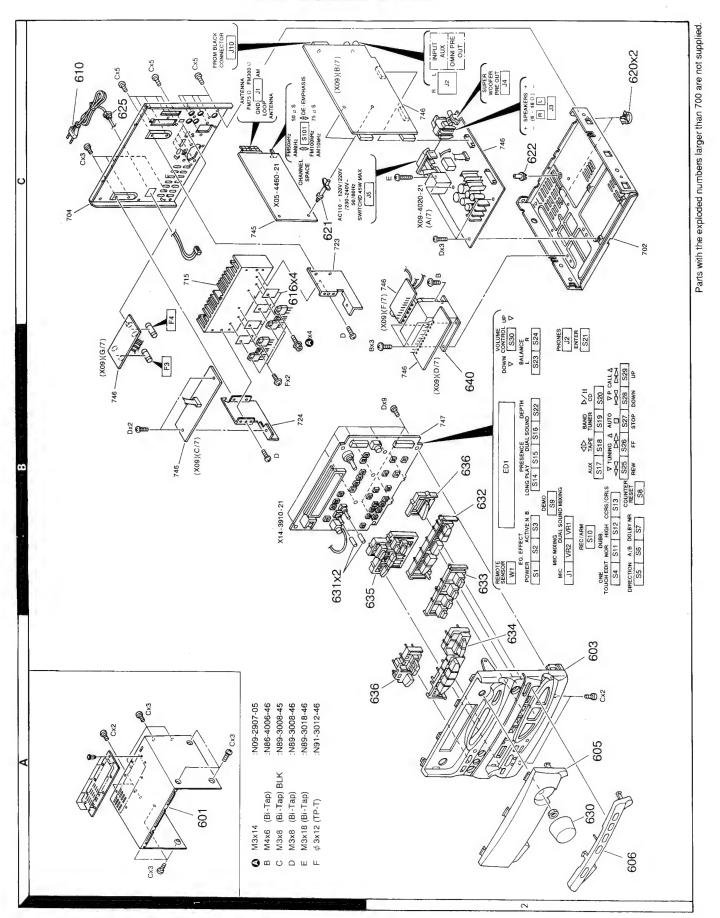
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



A-E5/L A-E5/L

EXPLODED VIEW

PARTS LIST



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A-ES/L (SINGAPORE MADE)	tion		<u>ф</u> ш	KRPYMX TE TE	4××≺3 4×Rp	×		RPYX E T M KRPYMX	KRPYMX T	×				KRP E XT YM		
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A indicates safety critical components.

R: Mexico G: Germany

P: Canada E: Europe M: Other Areas

L: Scandinavia K: USA Y: PX (Far East, Hawaii) T: England Y: AAFES (Europe) X: Australia

A indicates safety critical components.

R: Mexico G: Germany

P: Canada E: Europe M: Other Areas

L: Scandinavia K: USA Y: PX (Far East, Hawaii) T: England Y: AAFES (Europe) X: Australia

PARTS LIST

x New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

Re-	arks											· · · · · · · · · · · · · · · · · · ·		"
Desti-	mation 仕 向			YMI					YMI					
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۵	銀	FL-PROOF RS FL-PROOF RS RD RD	CHIP R	SLIDE SWITCH	ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	ANALOGUE IC ICCPL SYNTHESIZER) ICCOP AMP X2) TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	FM FRONT-END	CHIP C ELECTRO CHIP C CHIP C ELECTRO	CHIP C CHIP C CHIP C NP-ELEC BLECTRO	ELECTRO ELECTRO CHIP C CERAMIC CHIP C	CHIP C ELECTRO
Parts No.	中華品	RS14KB3A820J RS14KB3D221J RD14NB2E101J RD14NB2E470J RD14NB2E101J	R92-0670-05 R92-0670-05	\$62-0034-05	HZS5.1N(B2) RD5.1ES(B2) HZS3.3N(B2) RD3.3ES(B2) MA110	HSS104 1SS133 HZSB.2N(B2) RDB.2ES(B2) MA110	LA1831A-KEN LC7218 NJM4565D 2SC2714(R,0) 2SC1845(F,E)	2SC1740S(Q,R) 2SC2785(F,E) 2SC2412K 2SD863(E,F) 2SA1037K	2SA1037K 2SC2412K 2SC2412K 2SA1037K	W02-1167-05	H103K C470M H223K E473K H3R3M	CK73FB1H682K CK73FB1H103K CC73FSL1H330J CE04HW1E100M CE04LW1H010M	E04LW1HR33M E04LW1H010M K73FB1H103K 91-0769-05 K73FB1H223K	K73FB1H682K E04LW1V100M
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5	Re- marks 金売													
,	Destination 任 向				YMIX KRP			,			YMI			
	Description 野品化/煎缸	BINDING HEAD TAPTITE SCREW TP HEAD TAPPING SCREW	r (X05-4460-XX)	CHIP C 0.010UF K ELECTRO 47UF 10WV CHIP C 0.010UF K CHIP C 1000PF K	ELECTRO 4.7UF 50WV ELECTRO 1.0UF 50WV ELECTRO 2.2UF 50WV MYLAR 0.016UF J	ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV ELECTRO 10UF 35WV CLP C 0.047UF K ELECTRO 10UF 35WV	ELECTRO 47UF 10WV CHIP C 27PF J CHIP C 22PF J CHIP C 470PF K	ELECTRO 47UF 16WV CHIP C 0.022UF K ELECTRO 1.0UF SOWV CEHP C 0.010UF K CERRAIC 0.01UF K	ELECTRO 1.0UF 50WV CHIP 22PF 16WV CHIP 22PF 3 CHIP C 1000PF K	ELECTRO 100F 35WV ELECTRO 47UF 16HV ELECTRO 0.47UF 50WV CHIP C 0.047UF K	CHIP C 660PF K CHIP C 100PF J ELECTRO 470F 16WV WYLAR 6600PF J CHIP C 15PF J	LOCK TERMINAL BOARD(4P)ANTENNA	CERAMIC FILTER CERAMIC FILTER(10.7MHz) AM IFT SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1.0mH,K)	SMALL FIXED INDUCTOR(1UH) COMBINATION COIL SMALL FIXED INDUCTOR(1UH) CRYSTAL RESONATOR(7, 2MHz) RESONATOR
Parte No.	Parts 新 部 品 本 号		Ž	CK73FB1H103K CE04LW1A470M CK73FB1H103K CK73FB1H103K CK73FB1H102K	CE04LW1H4R7M CE04LW1H010M CE04LW1H2R2M CQ92FW1H163J	CE04LW1H010M CE04LW1H3R3M CE04LW1V100M CK73FB1E473K CE04LW1V100M	CE04LW1A470H CK73FB1H103K CC73FCH1H270J CC73FCH1H220J CK73FB1H471K	CE04LW1C470M CK73FB1H23K CE04LW1H010M CK73FB1H103K	CE04LW1H010M CE04LW1C470M CC73FSL1H220J CE04LW1H010M CK73FB1H102K	CE04LW1V100M CE04LW1C470M CE04LW1HR47M CK73FB1E473K CC73FSL1H101J	CK73FB1H681K CC73FSL1H101J CE04LW1C470M CQ92FW1H682J CC73FSL1H150J	E20-0476-05	L72-0531-05 L72-0574-05 L30-0467-05 L40-1091-17 S	L40-1091-17 L39-1328-05 L40-1091-17 L77-1122-05 L78-0295-05
Address		2C 1B										-		
Pag.	1000	មាជ	ı	C5 C5 C8 C10	C11 C13 C14 C21 ,22 C21 ,22	C23 C24 C27 C27	C31 C32 C33 C34 C34	C39 C40 C41 C42,43	CS1 CS2 CS7 C65 C66	C71 C72 C103-106 C107 C112	C114 C115,116 C121,122 C135,136 C182	J1	CF1 ,2 CF3 ,2 L7 L10 L11	L12 L103 X1 X2

PARTS LIST

Les articles non mentionnes dans le Parts No. ne sont pas fournis. Telle obne Parts No. werden nicht neilafert New Parts
 Parts No. are not supplied.

ation	年 向 編巻						>>>>> 80000	0 W O		^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	50WV 10WV 550WV 50WV	۸۸٥	
escription	品 名 / 規 格	IODE M TUNER) SYNTHESIZER)	X2)			-END ASSY	21.52	22UF 10UF 0.10UF 3 2200PF J	6800PF J 0.10UF J 6800PF J 0.10UF J	680PF 25 100F 26 1.00F 56 47PF J	1.00F 100UF 0.10UF 1.0UF 5.7UF 5.7UF	0.12UF J 0.010UF Z 220PF K 1.0UF 51	2700PF J
!	箱	ZENER DIØDE DIØDE DIØDE IC(AM,FM TU	ICCOP AMP) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR	FM FRONT (X09-4(ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	ELECTRO ELECTRO MYLAR MYLAR MYLAR	MYLAR MYLAR MYLAR MYLAR	MYLAR NP-ELEC ELECTRO CERAMIC ELECTRO	ELECTRO BLECTRO MYLAR ELECTRO ELECTRO	MF CERAMIC CERAMIC ELECTRO CERAMIC	MYLAB
Tarts NO.	中 幸 中	RD10ES(B) HSS104 1SS133 LA1851N LC7218	NJM4565D 2SC2714(R,0) 2SC1845(F,E) 2SC2412K 2SA1037K	2SC2412K 2SD863(E,F) 2SA1037K 2SC2412K 2SA1037K	2SC2412K 2SC2412K	W02-1166-15 AUDIO UNIT	CE04LW1H010M CE04LW1A101M CE04LW1H220M CE04LW1H3R3M CE04LW1H100M	CEO4LW1H220M CEO4LW1H100M CQ93FMG1H104J CQ93FMG1H222J CQ93FMG1H102J	CQ93FMG1H682J CQ93FMG1H104J CQ93FMG1H682J CQ93FMG1H104J CQ93FMG1H823J	CQ93FMG1H681J CEG4HW1E100M CEO4LW1H010M CC45FCH1H470J CEO4LW1A101M	CEO4LW1H010M CEO4LW1A101M CQ93FMG1H10AJ CEO4LW1H010M CEO4LW1H4R7M	CF92FV1H124J CK45FF1H103Z CK45FB1H221K CE04LW1H010M CK45FB1H221K	T0701H0751
Parts	推			•			-	***	****	*	*		
5	位圖												
. 1	参照番号	D111, 112 D1111, 112 D1111, 112 IC1 IC2	IC3 Q1 Q2 Q3 ,4	97 9102,103 9109,110 9111	Q113,114 Q116	DT1	C1 , 2 C3 , 4 C5 -10 C11 , 12 C13 , 14	C15 C16 C17 C18 -20 C21	C222 C234 C255 C26	C27 C28 ,30 C31 ,32 C33 ,34	C35 ,36 C37 ,38 C39 ,40 C41 -44 C45 ,46	C47 , 48 C49 , 50 C51 , 52 C53 , 54 C55 - 58	029 ,60

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-	D marks 回塞地													
Desti	nation (‡ †													
	夲	10WV	16WV 150WV 50WV	35WV 50WV 50WV 16WV	J K 50WV K 16WV	K 16¥V J	3P) ANTENNA	(10H)	(10H) (10H)	7.2MHz) (6kHz)	2 2 2 1 1 4 8 1 1 1 4 8 1 1 1 4 8 1 1 1 4 8 1 1 1 4 8 1 1 1 4 8 1 1 1 4 8 1 1 1 4 8 1 1 1 1			
Description	品名/規	0.047UF 47UF 0.010UF 27PF 22PF	470PF 47UF 0,022UF 2.2UF 0.010UF	100F 0.10F 0.01UF 1.0UF 47UF	22PF 4700PF 1.0UF 0.01UF 47UF	0.047UF 47UF 15PF	BOARD(LTER D INDUCTØR(1UH	D INDUCTOR(1UH) N COIL D INDUCTOR(1UH)	SONATOR(7.	S 220 100 47 100 0T.(22K)	0T.(10K) 0T.(4.7K) 0 0HM 0 0HM	ខាយដាពា	ŭ
	韓	CHIP C BLECTRO CHIP C CHIP C	CHIP C BLECTRO MYLAR NP-ELEC CHIP C	ELECTRO CERAMIC ELECTRO ELECTRO	CHIP C CHIP C ELECTRO CERAMIC ELECTRO	CHIP C ELECTRO CHIP C	LOCK TERMINAL	CERAMIC FINE SMALL FIXE FM IFT FM IFT LC FILTER	AM IFT LC FILTER SMALL FIXED COMBINATION SMALL FIXED	CRYSTAL RES RESONATOR	FL-PROOF RS RD RD RD RD TRIMMING PO	TRIMMING POUR POUR POUR PROCHIP R CHIP R CHIP R	ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE	DIODE
Parts No.	地 田 神	CK73FB1E473K CEO4LW1A470M CK73FB1H103K CC73FCH1H270J CC73FCH1H220J	CK73FB1H471K CEG4LW1C470M CQ92FM1H223J CEG4HW1H2R2M CK73FB1H103K	CEO4LW1V100M CEO4LW1HOR1M C91-0769-05 CEO4LW1H010M CEO4LW1C470M	CC73FCH1H220J CK73FB1H472K CEO4LW1H010M C91-0769-05 CEO4LW1C470M	CK73FB1E473K CEO4LW1C470M CC73FSL1H150J	E20-0321-05	L72-0536-05 L40-1091-17 L30-0496-05 L30-0497-05 L79-0125-05	L30-0467-05 L79-0790-05 L40-1091-17 L39-1325-05 L40-1091-17	L77-1122-05 L78-0295-05	RS14KB3D221J RD14NB2E101J RD14NB2E470J RD14NB2E101J R12-3686-05	R12-3685-05 R12-1619-05 R92-0670-05 R92-0679-05 R92-0679-05	HZS5.1N(B2) RD5.1ES(B2) HZS3.3N(B2) RD3.3ES(B2) HSS104	155133
s New	Parts													
Addres	负													
Š.	神		-38	4 4 8	,59	,122		22	6		,128	-103 -207 ,212		
Ref.	*	C28 C31 C32 C33 C34	C35 C39 C40 C41 C42	C45 C47 C50 C51	C56 C58 C65 C72	C107 C121 C182	11	CF1 L3 L5	L7 18 110 1103 1105	×2 ×2	R31 R42 R111 R127	VR2 VR3 W101 W200	03 04 05	50

		A indicates safety critical components.
R: Mexico	G: Germany	7
P: Canada	E: Europe	M: Other Areas
K: USA	ii) T: England	X: Australia
L: Scandinavia	Hawa	Y: AAFES (Europe)

 \triangle indicates safety critical components.

R: Mexico G: Germany

P: Canada E: Europe M: Other Areas

K: USA T: England X: Australia

L: Scandinavia
Y: PX (Far East, Hawaii)
Y: AAFES (Europe)

* New Parts

Parts without Parts No. are not supplied. Les articles non mentionnes dans le Parts No. ne sont pas fournis.

 $ilde{\Delta}$ indicates safety critical components.

R: Mexico G: Germany

P: Canada E: Europe M: Other Areas

K: USA T: England X: Australia

L: Scandinavia Y: PX (Far East, Hawaii) T Y: AAFES (Europe)

PARTS LIST

23.5	Parts without Parts No. are not supplied.	Les articles non mentionnes dans le Parts No. ne sont pas fournis.	Telle obbe Parts No worden picht collegent
1	Parts	Les ar	Telle

Ref. No.	Address	New	w Parts No.	Description	Desti-	L 12
参照番号	位置	9 No.	10 日本	部 品 名 / 規 格	nation 在 向	marks 無地
775 777 788 798			F04-2025-05 F06-2021-05 F04-2025-05 F06-2021-05 F06-2021-05	FUSE (UL) (250V-2A) FUSE (SEMKØ) (250V T2AL) FUSE (SEMKØ) (250V ZA) FUSE (SEMKØ) (250V T2AL) FUSE (SEMKØ) (250V T2AL)	KRP YMIXTE KRP YMIXTE	
F10 ,111			F05-5025-05	FUSE (SEMKØ) (250V TSA)	YMIXTE	
CN11,12 CN13,14 CN15-18 CN19,20 CN21,22		·	J13-0075-05 J13-0075-05 J13-0075-05 J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP	XTE KRP YMI KRP YMIXTE	
CN23,24 CN25,26 CN27,28 CN29-32			J13-0075-05 J13-0075-05 J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP	KRP YMIXTE E YMIXTE	
L1 -4			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
R100 R135-138 R153,154 R161,162 R166			RS14KB3D102J RD14NB2E220J RS14KB3D100J RD14NB2E1R0J RS14KB3D102J	FL-PROOF RS 1.0K J 2W RD 22 J 1/4W FL-PROOF RS 10 J 2W RD 11.0 J 1/4W FL-PROOF RS 1.0K J 2W	3: 3:	
R171,172 R182 R183 R193-196 R197-199			RD14NB2E223 RS14KB3D470J RD14NB2E4R7J RS14KB3DR22J RD14NB2E1R0J	R0 FL-PROOF RS 47 J 2W R0 4.7 J 14W FL-PROOF RS 0.2 J 2W R0 J 1/4W	3 3 3	
R200			R92-1769-05	CARBON 3.3M J 1/2W	KRP	
K1 ,2 K3 K4 S1			\$51-2094-05 \$76-0009-05 \$76-0005-05 \$31-2322-05	MAGNETIC RELAY MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH AC VOLTAGE SEL	YMI	
01 01 02 -9 02 -9 010 ,111			D3SBA20F03 RBV-402LFA S568B 1SR139-100 HSS104A	DIODE DIODE DIODE DIODE DIODE		
D10 ,11 D12 ,012 D12 ,013		* *	1SS131 MTZJ15(B) RD15ES(B2) MTZJ13(B) RD13ES(B2)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
014 014 016 -19 016 -19 020		*	HSS104A 1SS131 HSS104A 1SS131 MTZJ6.2(B)	DIODE DIODE DIODE DIODE ZENER DIODE		
020 021 ,22 021 ,22 023 ,24 023 ,24		*	RD6.2ES(B2) MTZJ10(B) RD10ES(B2) HZS5.1S(B2) RD5.1JS(B2)	ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE		
031 -35			HSS104A	200		

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Re- marks 桃												
Destination 仕向					KRPXTE	YMI	KRPXTE YMI KRPXTE	KRPYMI		KRPY MIE	F	KRP
夲	ロエリエロ	16WV Z J Z 50WV	20 MA 20 MA	50 W V K K K K 16 W V	10WV Z 56WV 50WV 35WV	16WV 10WV 35WV 50WV	63WV 35WV J 250WV Z	25 5088 2088 2086 2086	מצרת	NI SPEAKERS WOOFER	LE (19P)	34)
Description 品名/規	0.010UF 220PF 820PF 3300PF 0.010UF	330UF 0.010UF 22PF 0.022UF 0.22UF	100F 1.00F 47PF 3.30F	100F 470PF 22PF 220PF 1000UF	100UF 0.010UF 4700UF 4700UF 1000UF	1000UF 100UF 0.10UF 470UF	470UF 220UF 0.10UF 0.1UF	1000FF 100UF 10UF 4.7UF 0.010UF	0.10UF 6800PF 1000PF 0.010UF	4P) AUX/OMNI MAL BOARD SE 1P) SUPER WO	RECEPTAC	(250V
卸	CERAMIC CERAMIC MYLAR CERAMIC CERAMIC	BLECTRO CERAMIC CERAMIC CERAMIC BLECTRO	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	ELECTRO CERAMIC CERAMIC CERAMIC ELECTRO	ELECTRO CERAMIC ELECTRO ELECTRO	ELECTRO ELECTRO MYLAR ELECTRO	ELECTRO ELECTRO MYLAR MP CERAMIC	CERAMIC BLECTRO BLECTRO ELECTRO CERAMIC	MYLAR MYLAR CERAMIC CERAMIC	PHONO JACK C LOCK TERMIN PHONO JACK C AC OUTLET AC OUTLET	AC @UTLET RECTANGULAR	FUSE (UL)
Parts No. 邮品 邮号	CK45FF1H103Z CK45FB1H221K CQ93FMG1H821J CK45FB1H332K CK45FF1H103Z	CEO4LW1C331M CK45FF1H103Z CC45FCH1H220J CK45FF1H223Z CEO4LW1HR22M	CEO4LW1H100M CEO4LW1H010M CEO4LW1H010M CC45FSL1H470J CEO4LW1H3R3M	CEO4LW1H100M CK45FB1H471K CC45FCH1H220J CK45FB1H221K CEO4LW1C102M	CEO4LWIA101M CK45FF1H103Z C90-3559-05 C90-3561-05 CEO4LWIV102M	CEO4LW1C102M CEO4LW1A101M CQ93FMG1H104J CEO4LW1V102M CEO4LW1H471M	CEO4LW1J471M CEO4EW1V221M CQ93FMG1H104J C91-1422-05 CK45FF1H103Z	CK45FB1H102K CE04LW1E101M CE04LW1H100M CE04LW1H4R7M CK45FF1H103Z	CQ93FMG1H104J CQ93FMG1H682J CK45FB1H102K CK45FF1H103Z	E63-0046-15 E70-0045-05 E63-0116-05 E03-0146-05	E03-0109-05 E58-0006-05	F06-3027-05
New Parts					*	*	* *		* *	*		_
Address 位 置												
Ma No.	70 -74 80 84		0	03,104 05,106 07,108 09-112	18 19,120 21,122 21,122 23,124	5,126 7 9,130 2	34 35 37,138 37,138 40-143	08765	1-154 5,156 7,158 9			

		indicates safety critical components.
R: Mexico	G: Germany	7
P: Canada	E: Europe	M: Other Areas
K: USA	T: England	X: Australia
	Y: PX (Far East, Hawaii)	

No. 10

Desti- Re-nation marks 在 向審地

Description

Parts No.

器品

New Parts

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PARTS LIST

1000PF 0.01UF 47UF 0.01UF 220PF

CERAMIC CERAMIC ELECTRO CERAMIC CERAMIC

C91-0757-05 C91-0769-05 C90-3212-05 C91-0769-05 C91-0749-05

22UF 0.01UF 0.082UF 100UF 1UF

ELECTRO CERAMIC MYLAR ELECTRO

CEO4LW1V220M C91-0769-05 CQ93FMG1H823J C90-3214-05 C90-3253-05

C90-3253-05 C91-0769-05 C90-3214-05 CE04LW1A470M C993FMG1H103J

22PF 18PF 0.01UF 100UF 22UF

CERAMIC CERAMIC CERAMIC ELECTRO

CC45FCH1H220J CC45FCH1H180J C91-0769-05 C90-3214-05 C90-3226-05

SMALL FIXED INDUCTOR(100UH,K) RESONATOR (8.38MHz) CRYSTAL RESONATOR(32.768KHz)

L40-1011-17 L78-0605-05 L77-2111-05

100KX10 100KX6 10KX5 100KX4 47

MULTI-COMP MULTI-COMP MULTI-COMP MULTI-COMP RD

R90-0802-05 R90-0500-05 R90-0856-05 R90-0482-05 RD14NB2E470J

MINIATURE PHONE JACK MIC PHONE JACK PHONES

E11-0262-05 E11-0234-05

6.8UF 0.010UF 0.047UF 0.022UF

ELECTRO CERAMIC ELECTRO MYLAR

C90-3257-05 CK45FF1H103Z C90-1827-05 CQ93FMG1H223J CQ93FMG1H102J

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	led.	arts No. ne sont pas fournis.	efert.	
* New Parts	Parts without Parts No. are not supplied.	Les articles non mentionnes dans le Parts No. ne sont pas fournis.	Teile ohne Parts No. werden nicht geliefert.	

2 1 - 1	松	C22 C23 C24 C25 C26	C27 C28 ,29 C30 ,31 C32 C33	C34 C35 C36 C37 C38 ,39	C40 C42 C43 C43 -46	C47 ,48 C49 C50 C51 ,52	71 72 X1 X2 X3	CP1 CP2 CP3 CP4	2		530 01 -14 01 -14 015 ,16	0028 0028 0028	030 -37 030 -37 551
Desti- Re-									KRPYMI				
	部 品 名 / 规 格	D 10DE ZENER D10DE ZENER D10DE ZENER D10DE ZENER D10DE	DIODE DIODE ANALOGUE IC ICCLOCH BILATERAL SELECTOR SW) ICCOP AMP X4)	IC(0P AMP X2) ANALOGUE IC IC(0P AMP X4) IC(4CH MPX/DE-MPX) MOS-IC	IC(OP AMP X2) IC(OP AMP X4) IC(OPLAGE REGULATOR/+5.75V) IC(OP AMP X2) TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR		LECTRO ERAMIC LECTRO ERAMIC LECTRO	CERANIC 1000PF K ELECTRO 4.7UF 35WV ELECTRO 1.0UF 50WV CERANIC 22PF J ELECTRO 1.0UF 50WV	CERAMIC 22PF J CERAMIC 22PF J CERAMIC 0.010UF Z
Address New Parts No.	新田 春 号	1SS131 * MTZJ8.2(B) RPB.2ESS(B2) * MTZJ15(B) RTZJ15(B)	HSS104A 1SS131 NUV313AL TC9164N NJM2058D	NJM4565D-D UPC1853CT-02 NJM20580 TC4052BP * XRU4052BC	NJM4565D-D NJM2058D TA48057-5 NJM4565D-D 25C1845(F,E)	25A992(F, E) 25C2878(B) 25C1845(F, E) 25A1175(F, E) 25A9335(Q, R)	25C1845(F,E) 25A992(F,E) 25R2493 25B1624 25C4137	2581370 2581375 2582012 2582061 2584992(F,E)	2SC2003(L,K) 2SC1845(F,E)	50.50	E04LW1V 91-0729 90-3242 91-0749 E04LW1H	CK45FB1H102K C90-3242-05 CE04LW1H010M C91-0729-05 CE04LW1H010M	CE04LW1C470M C91-0729-05 CK45FF1H103Z
Ref. No. Add	参照番号 位	031 -35 037 037 038 ,39 038 ,39	C21	103 104 106 106	IC7 IC8 IC9 IC10 Q1 -4	95 -8 99 ,10 913 ,14 915	916 -19 920 ,22 923 ,24 925 ,26	927 927 928 ,29 930 ,29	Q31 ,32 Q33	038 -42 043 -50		C9 C10 C11,12 C13 C14	C15 ,16 C17 ,18 C19

		A indicates safety critical components.
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P: Canada	E: Enrope	M: Other Areas
K: USA	T: England	X: Australia
L: Scandinavia	Y: PX (Far East, Hawaii)	Y: AAFES (Europe)

DIODE

HSS104A 1SS131 MTZJS.1(B)

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155131 HSS104A 155131 HSS104A 155131

DUAL SOUND MIC MIXING

VARIABLE RESISTOR VARIABLE RESISTOR

R31-0005-05

VOLUME CONTROL

ROTARY ENCODER

HSS104A 1SS131 MTZJ3.9(B) RD3.9ES(B2) HSS104A

PUSH SWITCH

S40-1064-05 T99-0554-05

		indicates safety of
R: Mexico	G: Germany	₩
P: Canada	E: Europe	M: Other Areas
K: USA	T: England	X: Australia
L: Scandinavia	Y: PX (Far East, Hawaii)	Y: AAFES (Europe)

critical components.

Les articles non mentionnes dans le Parts No. ne sont pas fournis,

Teile ohne Parts No. werden nicht gellefert. Parts without Parts No. are not supplied.

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indicates safety critical components.

L: Scandinavia K: USA Y: PX (Far East, Hawaii) T: England Y: AAFES (Europe) X: Australia

PARTS LIST

* New Parts Parts without Parts No. are not supplied.

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	Les articles non mentionnes dans le Parts No. ne sont pas fournis.	
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DOUT Parts	as non me	
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natio #	YMI YMI		Y M I		
Description 部 品 名 / 規 格	ZENER DIGDE DIGDE DIGDE DIGDE TINDICATOR TUBE MI-COM IC	MOS-IC ICCGE FILTER) ANALOGUE IC ICCGP AMP X2) ICCOP AMP X2)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE	
Parts No. 邮品 本号	RD5.1ES(B2) HSS104A 1SS131 10-BT-144GK M38197MA-074FP	M66310FP XR-1091ECP S-806E-Z NJM4565D-D XRA15218-DX	2SC4038(9,R) 2SA1175(F,E) 2SA933S(Q,R) 2SC4038(Q,R)	W02-1174-05 W02-1191-05	
Parts	**	*		*	
Address 位 圖					
Ket. No. 機器動物	D51 D52 D52 E01 IC1	IC2 IC3 IC4 IC5,6 IC5,6	91 92 92 93 -6	A1 A1	

A-F5/I

SPECIFICATIONS

Amplifier section

A-E5

FM Tuner section

MW Tuner section

LW Tuner section

Tuning frequency range
MONO 75 dB (65 dBf input)
STEREO 68 dB (65 dBf input)
Selectivity (IHF ± 400 kHz) 50 dB
Stereo separation (IHF at 1 kHz)
Frequency response 30 Hz ~ 15 kHz + 0.5 dB, - 3 dB
AM Tuner section
Tuning frequency range
9 kHz step 531 kHz ~ 1,602 kHz
10 kHz step 530 kHz ~ 1,610 kHz
Usable sensitivity
Signal to noise ratio 48 dB
;
A-E5L
A-E5L FM Tuner section
FM Tuner section Tuning frequency range
FM Tuner section Tuning frequency range
FM Tuner section Tuning frequency range
FM Tuner section Tuning frequency range
FM Tuner section Tuning frequency range
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FM Tuner section Tuning frequency range 87.5 MHz ~ 108 MHz Sensitivity (DIN at 75 Ω) MONO 1.0μV / 11.2 dBf Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input) MONO 65 dB

Tuning frequency range 531 kHz ~ 1,602 kHz

Tuning frequency range 153 kHz ~ 279 kHz

Total harmonic distortion 0.09 % (1 kH	z 1 / 2 Rated nower 6()
Signal to noise ratio	z, 1 / z nateu power, 0 52
	81 dB (IHF'66)
Input sensitivity / Impedance AUX	200 1/ / 47 1/ 0
MIC	3.5 mV / 22 kO
Output level / Impedance	
SUPER WOOFER PRE OUT	2.0 V / 600 Ω
OMNI PRE OUT	1.0 V / 1 kΩ
[General]	
Power consumption	150 W
Dimensions	
	H : 205 mm (8-1 / 16")
Weight (net)	D : 293 mm (11-9 / 16")
	3.0 kg (12.0 lb)
Amplifier section	
Rated power output	55 W + 55 W (DIN, 6 Ω)
Total harmonic distortion 0.09 % (1 kHz	1 / 2 Poted power 6())
Signal to noise ratio	, 1 / 2 nated power, 0 sz/
	81 dB (IHF'66)
Input sensitivity / Impedance AUX	200 \$/ / 47 b()
MIC	200 m V / 47 κΩ2
Output level / Impedance	
SUPER WOOFER PRE OUT	
OMNI PRE OUT	1.0 V / 1 kΩ
[General]	
Power consumption	150 W
Dimensions	W:270 mm (10-5 / 8) H:205 mm (8-1 / 16")
	D: 293 mm (11-9 / 16")
Weight (net)	5.8 kg (12.8 lb)

Rated power output...... 60 W + 60 W (EIAJ, 6 Ω)

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KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations. ations through use of parts list.